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(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVEN-  
TION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human  
cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers  
is correlated with the presence of cervical cancer.

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NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION,  
AND THERAPY OF CERVICAL CANCER

5 RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/169,681, filed on December 8, 1999, U.S. provisional application serial no. 60/171,350, filed on December 21, 1999, U.S. provisional application serial no. 60/189,315, filed on March 14, 2000, U.S. provisional application serial no. 60/203,791,  
10 filed on May 12, 2000, and U.S. provisional application serial no. 60/210,600, filed on June 9, 2000, all of which are expressly incorporated by reference.

FIELD OF THE INVENTION

The field of the invention is cervical cancer, including diagnosis,  
15 characterization, management, and therapy of cervical cancer.

BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments  
20 available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

Cancer of the cervix is one of the most common malignancies in women and remains a significant public health problem throughout the world. In the United States  
25 alone, invasive cervical cancer accounts for approximately 19% of all gynecological cancers. In 1996, it is estimated that there will be 14,700 newly diagnosed cases and 4900 deaths attributed to this disease (American Cancer Society, Cancer Facts & Figures 1996, Atlanta, Ga.: American Cancer Society, 1996). In many developing countries, where mass screening programs are not widely available, the clinical problem is more  
30 serious. Worldwide, the number of new cases is estimated to be 471,000 with a four-year survival rate of only 40% (Munoz et al., 1989, *Epidemiology of Cervical Cancer* In: "Human Papillomavirus", New York, Oxford Press, pp 9-39; National Institutes of

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Health, Consensus Development Conference Statement on Cervical Cancer, Apr.1-3, 1996).

The precursor to cervical cancer is dysplasia, also known in the art as cervical intraepithelial neoplasia (CIN) or squamous intraepithelial lesions (SIL). While it is not understood how normal cells become transformed, the concept of a continuous spectrum of histopathological change from normal, stratified epithelium through CIN to invasive cancer has been widely accepted for many years. A large body of epidemiological and molecular biological evidence has established human papillomavirus (HPV) infection as a causative factor in cervical cancer. HPV is found in 85% or more of squamous cell invasive lesions, which represent the most common histologic type seen in cervical carcinoma. Additional cofactors have also been identified, including oncogenes that have been activated by point mutations and chromosomal translocations or deletions.

In light of this, cervical cancer remains a highly preventable form of cancer when pre-invasive lesions are detected early. Cytological examination of Papanicolaou-stained cervical smears (also referred to as Pap smears) is currently the principle method for detecting cervical cancer. Not surprisingly, the effectiveness of Pap smear screening varies depending not only upon the quality of the sample being used, but also upon subjective parameters that are inherent to the analysis. In addition, despite the historical success of the test, concerns have arisen regarding its ability to reliably predict the behavior of some pre-invasive lesions (Ostor *et al.*, 1993, *Int. J. Gynecol. Pathol.* 12: 186-192; and Genest *et al.*, 1993, *Human Pathol.* 24: 730-736).

It would be therefore be desirable to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with cervical cancer, or to indicate a predisposition to such for preventative measures.

## SUMMARY OF THE INVENTION

The invention relates to novel genes associated with cervical cancer as well as methods of assessing whether a patient is afflicted with cervical cancer. "Cervical cancer" as used herein includes pre-malignant conditions, *e.g.*, CIN and SIL. The methods of the present invention comprise the step of comparing the level of expression of a novel marker in a patient sample, wherein the marker is listed within Tables 1-4, and the normal level of expression of the marker in a control, *e.g.*, a sample from a

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patient without cervical cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition (*e.g.*, CIN and/or SIL).

In one method, the marker(s) are preferably selected such that the positive  
5 predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is differentially-expressed by at least two-fold in at least about 20% of any of the following conditions: stage 0 cervical cancer patients, stage I cervical cancer patients, stage II cervical cancer patients, stage III cervical cancer patients, stage IV cervical cancer patients, grade I cervical cancer patients, grade II  
10 cervical cancer patients, grade III cervical cancer patients, squamous cell (epidermoid) cervical cancer patients, cervical adenocarcinoma patients, cervical adenosquamous carcinoma patients, small-cell cervical carcinoma patients, malignant cervical cancer patients, patients with primary carcinomas of the cervix, patients with primary malignant lymphomas of the cervix and patients with secondary malignant lymphomas of the  
15 cervix, and all other types of cancers, malignancies and transformations associated with the cervix.

In one embodiment of the methods of the present invention, the sample comprises cells obtained from the patient. The cells may be found in a cervical smear collected, for example, by a cervical brush. In another embodiment, the patient sample  
20 is a cervical-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, urine, and fluids collected by peritoneal rinsing.

In accordance with the methods of the present invention, the presence and/or level of expression of the marker in a sample can be assessed, for example, by detecting  
25 the presence in the sample of :

- a protein corresponding to the marker or a fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)  
30
- a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

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- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed within Tables 1-4 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for identifying patients with a pre-malignant condition such as CIN and/or SIL. The methods are also useful for further diagnosing patients having an identified cervical mass or symptoms associated with cervical cancer. The methods of the present invention can further be of particular use with patients having an enhanced risk of developing cervical cancer (*e.g.*, patients having a familial history of cervical cancer and patients identified as having a mutant oncogene). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a cervical cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with cervical cancer. A significantly enhanced level of expression in the sample of one or more of the markers listed in Tables 1-4, or some combination thereof, relative to that marker's corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. The markers of Tables 1-4 may also be used in combination with known cervical cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with cervical cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

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- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-4, and
- b) the normal level of expression of the marker in a control non-cervical cancer sample.

- 5     A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer.

- The invention further relates to a method of assessing the efficacy of a therapy
- 10   for inhibiting cervical cancer in a patient. This method comprises comparing:
- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed within Tables 1-4, and
  - 15   b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

- 20     It will be appreciated that in this method the "therapy" may be any therapy for treating cervical cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a cervical tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

- 25     The present invention therefore further comprises a method for monitoring the progression of cervical cancer in a patient, the method comprising:
- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
  - 30   b) repeating step a) at a subsequent time point in time; and
  - c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of cervical cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with cervical cancer. This kit comprises reagents for assessing expression of a marker listed within Tables 1-4.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting a cervical cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed within Tables 1-4, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of cervical cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed within Tables 1-4.

The invention also includes a kit for assessing the presence of cervical cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically  
5 with a transcribed polynucleotide corresponding to a different marker listed within Tables 1-4.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. The method comprises isolating a protein or protein fragment corresponding to  
10 a marker listed within Tables 1-4, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody  
15 produced by this method.

The invention further includes a method of assessing the cervical carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- 20 b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed within Tables 1-4. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses cervical  
25 carcinogenic potential.

Additionally, the invention includes a kit for assessing the cervical carcinogenic potential of a test compound. The kit comprises cervical cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed within Tables 1-4.

The invention further relates to a method of treating a patient afflicted with cervical cancer. This method comprises providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed within Tables 1-4.

- 5           The invention includes a method of inhibiting cervical cancer in a patient at risk for developing cervical cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed within Tables 1-4.

          It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known cervical cancer markers. It will further  
10 be appreciated that the methods and kits may be used to identify cancers other than cervical cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

          The invention relates to newly discovered genes associated with the cancerous  
15 state of cervical cells. It has been discovered that the level of expression of these individual genes, also referred to as markers, and combinations of these genes correlates with the presence of cervical cancer or a pre-malignant condition in a patient. Methods are provided for detecting the presence of cervical cancer in a sample, the absence of cervical cancer in a sample, the stage of cervical cancer, and with other characteristics of  
20 cervical cancer that are relevant to prevention, diagnosis, characterization and therapy of cervical cancer in a patient. As used herein, "cervical cancer" includes pre-malignant conditions including CIN and SIL.

#### Definitions

25           As used herein, each of the following terms has the meaning associated with it in this section.

          The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

30           A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed within Tables 1-4. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns

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occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences).

- 5 As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: The second polynucleotide comprises the first polynucleotide and the second polynucleotide  
10 encodes a gene product; 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be a fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a  
15 protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The  
20 second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene; 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention.

- 25 Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

- 30 A "cervical-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through cervical cells or into which cells or proteins shed from cervical cells are capable of passing. Exemplary cervical-associated body fluids

include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in cervical cells of a patient, *e.g.* a human, not afflicted with cervical cancer.

5 "Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the  
10 promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

15 A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked  
20 with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
25 product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding  
30 to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

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"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

5       As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

Expression of a marker in a patient is "significantly" higher than the normal level of expression of a marker if the level of expression of the marker is greater than the  
10   normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five  
15   times, higher or lower, respectively, than the normal level of expression of the marker.

Cervical cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cervical cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

A kit is any manufacture (*e.g.* a package or container) comprising at least one  
20   reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

25       The present invention is based, in part, on identification of novel markers which are expressed at a higher level in cervical cancer cells than they are in normal (*i.e.* non-cancerous) cervical cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous cervical cells. The presence, absence, or level of expression of one or more of these  
30   markers in cervical cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state

of cervical cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 5           1)     assessing whether a patient is afflicted with cervical cancer, including assessing whether the patient has a pre-malignant condition, *e.g.*, CIN and/or SIL;
- 2)     assessing the stage of cervical cancer in a human patient;
- 3)     assessing the grade of cervical cancer in a patient;
- 4)     assessing the benign or malignant nature of cervical cancer in a patient;
- 10          5)     assessing the histological type of neoplasm (*e.g.* squamous cell, small cell, etc.) associated with cervical cancer in a patient;
- 6)     making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer;
- 7)     assessing the presence of cervical cancer cells;
- 15          8)     assessing the efficacy of one or more test compounds for inhibiting cervical cancer in a patient;
- 9)     assessing the efficacy of a therapy for inhibiting cervical cancer in a patient;
- 10)    monitoring the progression of cervical cancer in a patient;
- 20          11)    selecting a composition or therapy for inhibiting cervical cancer in a patient;
- 12)    treating a patient afflicted with cervical cancer;
- 13)    inhibiting cervical cancer in a patient;
- 14)    assessing the cervical carcinogenic potential of a test compound;
- 25               and
- 15)    inhibiting cervical cancer in a patient at risk for developing cervical cancer.

30           The invention thus includes a method of assessing whether a patient is afflicted with cervical cancer which includes assessing whether the patient has a pre-malignant condition. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-

cervical cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer. The marker is selected from the group consisting of the markers listed within Tables 1-4.

5           The polynucleotides set forth in Tables 1-4 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-4. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or  
10 full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

          The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, such as  
15 an allelic variant. These altered, but phenotypically equivalent polynucleotides are referred to as "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides  
20 of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

          Any marker or combination of markers listed within Tables 1-4, as well as any  
25 known markers in combination with the markers set forth within Tables 1-4, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in cervical cancer cells and the level of expression of the same marker in normal cervical cells is as great as possible. Although this difference can be as small as the  
30 limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method,

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and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It will be appreciated that patient samples containing cervical cells may be used in the methods of the present invention. In these embodiments, the level of expression  
5 of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a cervical cell sample, *e.g.*, cervical smear, obtained from a patient. The cell sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the  
10 marker in the sample. Likewise cervical smears may also be subjected to post-collection preparative and storage techniques, *e.g.*, fixation.

It will also be appreciated that certain markers correspond to proteins or fragments thereof, which are secreted from cervical cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are  
15 preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein or fragment thereof, corresponding to each of these markers can be detected in a cervical-associated body fluid sample. In addition, preferred *in vivo* techniques for detection of a protein or fragment thereof, corresponding to a marker of the invention include introducing into a subject a labeled antibody  
20 directed against the protein or fragment of the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any  
25 particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a cervical cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

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The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424-54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of cervical-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* cervix, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient).

Many cervical-associated body fluids can have cervical cells therein, particularly when the cervical cells are cancerous, and, more particularly, when the cervical cancer is metastasizing. Cell-containing fluids which can contain cervical cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and cervical exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins or fragments thereof, having at least one portion which is displayed on the surface of cells which

express it. Although the proteins having at least one cell-surface portion are not set forth herein, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well  
5 known computer-based sequence analysis methods (*e.g.* the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein or fragment thereof, having at least one portion which is displayed on the surface of a cell  
10 which expresses it may be detected without necessarily lysing the cell (*e.g.* using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for  
15 detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods. *In situ* hybridization (ISH) and immunohistochemistry (IHC) methods are preferred.

In another preferred embodiment, expression of a marker is assessed using an  
20 antibody (*e.g.* a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (*e.g.* an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {*e.g.* biotin-streptavidin} ), or an antibody fragment (*e.g.* a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or fragment thereof, corresponding  
25 to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In yet another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient  
30 sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction

methods prior to hybridization with the reference polynucleotide. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker  
5 of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If  
10 polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker  
15 expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum  
20 detection limit of the method used to assess expression in at least one of normal cervical cells and cancerous cervical cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- (or under-)expressed in cancers of various types, including specific cervical  
25 cancers, as well as other cancers such as ovarian cancer, breast cancer, etc. For example, it will be confirmed that some of the markers of the invention are over-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of cervical cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with cervical cancer of various stages (*i.e.* stage 0, I, II, III, and IV cervical  
30 cancers, as well as subclassifications IA1, IA2, IB, IB1, IB2, IIA, IIB, IIIA, IIIB, IVA, and IVB, using the FIGO Stage Grouping system for primary carcinoma of the cervix (see Gynecologic Oncology, 1991, 41:199 and Cancer, 1992, 69:482)), of various

histologic subtypes (e.g. squamous cell carcinomas and squamous cell carcinoma variants such as verrucous carcinoma, lymphoepithelioma-like carcinoma, papillary squamous neoplasm and spindle cell squamous cell carcinoma (see *Cervical Cancer and Preinvasive Neoplasia*, 1996, pp. 90-91), serous, mucinous, endometrioid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal {Müllerian} mixed tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant cervical tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (i.e. grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in patients.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with a cervical cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a positive predictive value (PPV) of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using  
 5 reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. When a plurality of markers is used, it is  
 10 preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-cervical origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which  
 15 has a restricted tissue distribution, *e.g.*, normally not expressed in non-cervical tissue.

Only a small number of markers are known to be associated with cervical cancers (*e.g.* bcl-2, 15A8 antigen, cdc6, Mcm5, and EGFR). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example.  
 20 It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond  
 25 to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csfl/rfms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *eph*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *flil/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB- 2/neu*,  
 30 *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nfl*, *nf2*, *nme2*, *nras*, *p53*,

*pdgfb, phb, pim1, pms1, pms2, plc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thral, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

5 Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor  
10 (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-  
15 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth  
20 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

25 Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),  
30 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1, cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8

and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- 5 Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3,
- 10 extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type
- 15 II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase
- 20 Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src
- 25 homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-
- 30 fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing cervical cancer and their medical advisors. Patients recognized as having an enhanced risk of developing cervical cancer include, for example, patients having a familial history of cervical cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients determined through any other established medical criteria to be at risk for cancer or other malignancy.

The level of expression of a marker in normal (*i.e.* non-cancerous) human cervical tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of cervical cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the cervical cells which is suspected of being cancerous. For example, the normal level of expression of a marker may be assessed using a non-affected portion of the cervix and this normal level of expression may be compared with the level of expression of the same marker in an affected portion of the cervix. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of cervical cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of cervical cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a paraffinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of cervical cancer cells (*e.g.* in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (*e.g.* a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (*e.g.* SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal cervical cells, a sample of cervical cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. In this method, a protein corresponding to a marker of the invention is isolated (*e.g.* by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened

using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test

5 compound for inhibiting cervical cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of cervical cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of cervical cells, it is likewise recognized that changes in the levels of expression of other of the  
10 markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit cervical cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous cervical cells).

15 This method thus comprises comparing expression of a marker in a first cervical cell sample and maintained in the presence of the test compound and expression of the marker in a second cervical cell sample and maintained in the absence of the test compound. A significant decrease in the level of expression of a marker listed within Tables 1-4 is an indication that the test compound inhibits cervical cancer. The cervical  
20 cell samples may, for example, be aliquots of a single sample of normal cervical cells obtained from a patient, pooled samples of normal cervical cells obtained from a patient, cells of a normal cervical cell line, aliquots of a single sample of cervical cancer cells obtained from a patient, pooled samples of cervical cancer cells obtained from a patient, cells of a cervical cancer cell line, or the like. In one embodiment, the samples are  
25 cervical cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various cervical cancers are tested in order to identify the compound which is likely to best inhibit the cervical cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting cervical cancer in a patient. In this method, the level of expression of one or  
30 more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant decrease in the level of

expression of a marker listed within Tables 1-4, or blocks induction of a marker listed within Tables 1-4, then the therapy is efficacious for inhibiting cervical cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be  
5 efficacious for inhibiting cervical cancer in the patient.

As described herein, cervical cancer in patients is associated with an increase in the level of expression of one or more markers listed within Tables 1-4. While, as discussed above, some of these changes in expression level result from occurrence of the cervical cancer, others of these changes induce, maintain, and promote the cancerous  
10 state of cervical cancer cells. Thus, cervical cancer characterized by an increase in the level of expression of one or more markers listed within Tables 1-4 can be controlled or suppressed by inhibiting expression of those markers.

Expression of a marker listed within Tables 1-4 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be  
15 provided to the cervical cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the  
20 marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the cervical cancer cells of the patient.

25 As described above, the cancerous state of human cervical cells is correlated with changes in the levels of expression of the markers of the invention. Thus, compounds which induce increased expression of one or more of the markers listed within Tables 1-4 can induce cervical cell carcinogenesis. The invention thus includes a method for assessing the human cervical cell carcinogenic potential of a test compound.  
30 This method comprises maintaining separate aliquots of human cervical cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant increase in the level of expression of a

marker listed within Tables 1-4 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human cervical cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by  
5 comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

10

#### I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a  
15 polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or  
20 mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

25 An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the  
30 nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA

of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

5           A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-4, can be isolated using standard molecular biology techniques and the sequence information described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in  
10   Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

          A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may be employed. One such  
15   method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then  
20   amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the  
25   manufacturer's instructions.

          Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as  
30   those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a database called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone.

- 5 Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X. , 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used  
10 accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in  
15 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with <sup>32</sup>P-ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant  
20 PCR product contains the SAGE tag of interest as well as additional cDNA, the length of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first  
25 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)-3', contains a poly-T stretch at the 3' end for hybridization and  
30 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to strepavidin-coated magnetic beads, and an *AscI* restriction endonuclease site for releasing the cDNA from the strepavidin-coated magnetic beads.

Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed as described in U.S. Patent No. 5,695,937 up until adapter ligation where only  
5 one adapter is ligated to the cDNA pool. After adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer  
10 employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the  
15 streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid  
20 DNA containing directional cDNA inserts is enriched for the target sequence by hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target  
25 is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the  
30 <sup>32</sup>P-labeled oligonucleotide, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, 5 oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence 10 complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given 15 nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The 20 probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

25 Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis- 30 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

5           In addition to the nucleotide sequences described in the Tables, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which  
10           occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

15           As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 0.1-0.5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be  
20           readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

          In another embodiment, an isolated nucleic acid molecule of the invention is at  
25           least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes  
30           under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent

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conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for  
5 annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*, Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of  
15 the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-  
20 essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino  
25 acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that  
30 are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that

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is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by  
5 introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are  
10 made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic  
15 acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced  
20 randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*,  
25 molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the  
30 invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-

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coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 5 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the 10 molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5- 15 (carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta- 20 D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. 25 Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

30 The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the

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invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into a cervix-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-*o*-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS

RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as

probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity.

10 PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard

15 phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996,

20 *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-11124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating

25 transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques*

30 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide,

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hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the

5 molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions

10 are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

15 II. Isolated Proteins and Antibodies

One aspect of the invention pertains to novel isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment,

20 the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized

25 chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language

30 "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material

includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker (*e.g.*, the amino acid sequence listed in the GenBank and IMAGE Consortium database records described herein), which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences in Tables 1-4. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then

compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, %  
5 identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) x100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of  
10 Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences  
15 homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be  
20 used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of  
25 Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity  
30 and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for

comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a  $k$ -tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent  
5 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous  
10 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

15 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal  
20 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,  
25 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the phoA secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

30 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family.

The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not

secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

- 5 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants  
10 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which  
15 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

20 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene  
25 library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the  
30 polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,

*Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated  
5 population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include  
10 sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

15 Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors,  
20 transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify  
25 variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length  
30 polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues

of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds.

Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred

polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression  
5 of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA)  
10 using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography.  
15 For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes,  
20 thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%,  
25 yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers  
30 are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining

regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, e.g., Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521-3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having cervical cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chain genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, e.g., all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, e.g., U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent

5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy

anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil  
5 decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin,  
10 mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide  
15 possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"),  
20 interleukin-6 ("IL-6"), granulocyte macrophage colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Armon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in *Monoclonal Antibodies And Cancer Therapy*, Reisfeld et al.  
25 (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in *Controlled Drug Delivery* (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in *Monoclonal Antibodies '84: Biological And Clinical Applications*, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future  
30 Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in *Monoclonal Antibodies For Cancer Detection And Therapy*, Baldwin et al. (eds.), pp.

303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

5       Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
10   fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is  
15   encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or  
20   humanized antibodies.

      In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present  
25   invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence  
30   which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing

in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal  
5 antibodies.

In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the  
10 present invention, a fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an  
15 amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

20 The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal  
25 antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a  
30 fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical  
5 composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immungen  
10 comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention  
15 (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of  
20 hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art.  
25 The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

30 Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector"

refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the

host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

5           The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed  
10 and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein  
15 encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion  
20 moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and  
25 pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San  
30 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter

mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express  
5 the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized  
10 in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-  
15 943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf  
20 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC  
25 (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

30 In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-

specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and  
5 Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (*e.g.*, the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (*e.g.*, milk whey promoter; U.S. Patent No.  
10 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a  
15 DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense  
20 orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic  
25 acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant  
30 expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny

of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

5           A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

          Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized  
10 techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

          For stable transfection of mammalian cells, it is known that, depending upon the  
15 expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418,  
20 hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

          A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the  
25 invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced.  
30 In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S.

Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA  
5 encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which  
10 contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, e.g., functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a  
15 "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by  
20 additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector  
25 (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a  
30 mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant

female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination  
5 vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One  
10 example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the  
15 transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

20 Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

25 The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically  
30 acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and

agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

5           The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can  
10 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

15           The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the  
20 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the  
25 marker.

          The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries  
30 (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85);

spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other  
5 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*  
10 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,  
15 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991; *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

20 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for  
25 example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with  $^{125}\text{I}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , or  $^3\text{H}$ , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,  
30 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.

In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an cervical cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that

interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying.

Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated

marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in  
5 advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection  
10 of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the  
15 initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used.  
20 This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds  
25 modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and  
30 immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and

densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York, 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York, 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*,  
5 Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy.  
10 Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be  
15 assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will  
20 result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of  
25 mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA  
30 or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA

or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA  
5 or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for  
10 cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense  
15 marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the  
20 above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or  
25 sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram,  
30 about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of

subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic

- water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as
- 5 bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants.
- 10 Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about
- 15 by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required,

20 followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a

25 powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and

30 used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.

Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, e.g., a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (e.g., with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically

acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (e.g., into the cervical epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, e.g., Chen *et al.*, 1994, *Proc. Natl. Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, e.g. retroviral vectors, the pharmaceutical preparation can include one or more cells which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

#### V. Computer Readable Means and Arrays

Computer readable media comprising a marker(s) of the present invention is also provided. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to:

5 magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. The skilled artisan will readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium

10 having recorded thereon a marker of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the markers of the present invention.

15 A variety of data processor programs and formats can be used to store the marker information of the present invention on computer readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database

20 application, such as DB2, Sybase, Oracle, or the like. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be adapted in order to obtain computer readable medium having recorded thereon the markers of the present invention.

By providing the markers of the invention in computer readable form, one can

25 routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the invention in computer readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which

30 match a particular target sequence or target motif.

The invention also includes an array comprising a marker(s) of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes  
5 can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be  
10 grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a  
15 determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired  
20 effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological  
25 contexts, as disclosed herein, for example development and differentiation, tumor progression, progression of other diseases, *in vitro* processes, such a cellular transformation and senescence, autonomic neural and neurological processes, such as, for example, pain and appetite, and cognitive functions, such as learning or memory.

The array is also useful for ascertaining the effect of the expression of a gene on  
30 the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

5 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trials are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
10 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing cervical cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

15 Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit cervical cancer or to treat or prevent any other disorder {*i.e.* in order to understand any cervical carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the  
20 following sections.

A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves  
25 obtaining a biological sample (*e.g.* a cervical smear) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro*  
30 techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs),

Western blots, immunoprecipitations, immunohistochemistry and immunofluorescence.

*In vitro* techniques for detection of genomic DNA include Southern hybridizations.

Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the  
5 polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind,  
10 thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction.  
15 In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

20 There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and  
25 immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs.  
30 Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (e.g., by washing) under conditions such that any complexes formed will remain  
5 immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known  
10 to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A  
15 fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen  
20 that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay  
25 should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (e.g., using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA)  
30 (see, e.g., Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real

time, without labeling any of the interactants (e.g., BIAcore). Changes in the mass at the binding-surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions  
5 between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential  
10 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed-assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).  
15 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the  
20 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, e.g., Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-  
25 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or  
30 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the

absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using  
5 methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from cervical  
10 cells (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

15 The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe  
20 can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe  
25 indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the  
30 probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the cervical cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-cervical cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

10        Preferably, the samples used in the baseline determination will be from cervical cancer or from non-cervical cancer cells of cervical tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is cervical specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from cervical cells provides a means for grading the severity of the cervical cancer state.

20        In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

30        Proteins from cervical cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A*

*Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis, immunohistochemistry (IHC) and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether cervical cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots, IHC or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody, proteins or cell containing proteins on a solid support. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amyloses, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from cervical cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (e.g. a cervical smear). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing cervical cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (e.g., an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

5 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a  
10 preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package,  
15 along with instructions for interpreting the results of the assays performed using the kit.

#### B. Pharmacogenomics

Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically  
20 or therapeutically) cervical cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the  
25 pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens. Accordingly, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor  
5 altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the  
10 main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT  
15 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among  
20 different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic  
25 response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the

identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

5           This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-4. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a cervical cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by  
10   first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between  
15   the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a cervical cancer cell as defined above.

          In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, *e.g.*, in Compare Report using  
20   the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS  
25   for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of  
30   polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

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One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (e.g.,  $\text{GroupNormal} = \text{Normal1} + \text{Normal2}$ ,  $\text{GroupTumor1} + \text{TumorCellLine}$ ). Additional characteristic values are also calculated for each tag in the group (e.g., average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

### 10      C. Monitoring Clinical Trials

Monitoring the influence of agents (e.g., drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for cervical cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (e.g., an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, i.e., to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, i.e., to decrease the effectiveness of the agent.

#### D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, cervical cancer. As used herein, a “surrogate marker” is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a “pharmacodynamic marker” is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected

5 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker.

Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct

10 observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As

15 used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the

20 presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be

25 present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VII. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the  
5 isolation of clones expressed at higher levels in one population of mRNA (tester)  
compared to another population (driver). Both tester and driver mRNA populations are  
converted into cDNA by reverse transcription, and then PCR amplified using the  
SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using  
the PCR-Select cDNA subtraction kit from Clontech. This technique results in both  
10 subtraction and normalization, which is an equalization of copy number of low-  
abundance and high-abundance sequences. After generation of the subtractive libraries,  
a group of 96 or more clones from each library is tested to confirm differential  
expression by reverse Southern hybridization.

SEQ ID NOS: 1-705 were identified through the above-described subtractive  
15 library hybridization technique, wherein the "tester" source for the subtracted libraries  
was comprised of cDNA generated from four independent stage IB cervical tumors.  
The "driver" source for the subtracted libraries was comprised of cDNA generated from  
at least three independent samples of normal ectocervix that were manually dissected to  
isolate the epithelial component of the tissue. In some cases, the driver also included  
20 cDNA generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in  
activated and resting states.

SEQ ID NOS: 706-1428 were also identified through the above-described  
subtractive library hybridization technique, wherein the "tester" source for the  
subtracted libraries was comprised of cDNA generated from four independent CINIII  
25 cervical samples. The "driver" source for the subtracted library was comprised of  
cDNA generated from six independent normal ectocervix samples that were manually  
dissected to isolate the epithelial components. The "driver" source also includes cDNA  
generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in activated  
and resting states.

### B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

### VIII . Summary Of The Data Provided In The Tables

Table 1 shows 1428 novel nucleotide sequences identified through subtracted library experiments. These 1428 novel sequences were determined to be novel through various BLAST searches of available databases. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 2 and 3. Table 4 sets forth additional sequence (*e.g.*, full-length sequences) for the sequences of Tables 1-3.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

### Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:
  - a) a nucleic acid molecule comprising a nucleotide sequence which  
5 is at least 90% homologous to a nucleotide sequence of Tables 1-4, or a complement thereof;
  - b) a nucleic acid molecule comprising a fragment of a nucleic acid comprising the nucleotide sequence of Tables 1-4, or a complement thereof; and
  - c) a nucleic acid molecule comprising the nucleotide sequence of  
10 Tables 1-4, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.  
15
4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleic acid comprising a nucleotide sequence of Tables 1-4.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.
- 25 7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
  - a) contacting the sample with a compound which selectively binds to the polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the  
30 sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

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8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.
- 5 9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:
- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and
  - b) determining whether the nucleic acid probe or primer binds to a nucleic
- 10 acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.
10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.
- 15 11. The method of claim 9, wherein the sample is isolated from cervical tissue.
12. The method of claim 9, wherein the sample is a tumor sample.
- 20 13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.
14. A method of assessing whether a patient is afflicted with cervical cancer or has a pre-malignant condition, the method comprising comparing:
- 25 a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and
- b) the normal level of expression of the marker in a control non-cervical cancer sample,
- 30 wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition.

15. The method of claim 14, wherein the patient has CIN.
16. The method of claim 14, wherein the patient has SIL.
- 5 17. The method of claim 14, wherein the marker corresponds to a secreted protein.
18. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.
- 10 19. The method of claim 14, wherein the sample comprises cells obtained from the patient.
20. The method of claim 19, wherein the sample is a cervical smear.
- 15 21. The method of claim 19, wherein the cells are in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, a cystic fluid, and an cervical exudate.
- 20 22. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.
- 25 23. The method of claim 17, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.
24. The method of claim 23, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.
- 30

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25. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.

5

26. The method of claim 25, wherein the transcribed polynucleotide is an mRNA.

27. The method of claim 25, wherein the transcribed polynucleotide is a cDNA.

10

28. The method of claim 25, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.

15

29. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.

20

30. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 2.

25

31. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 5.

32. The method of claim 14, comprising comparing:  
a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4, and  
b) the normal level of expression of each of the plurality of markers in  
5 samples of the same type obtained from control humans not afflicted with cervical cancer,  
wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical cancer or a pre-  
10 malignant condition.
33. The method of claim 32, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical  
15 cancer.
34. The method of claim 32, wherein the plurality comprises at least three of the markers.
- 20 35. The method of claim 32, wherein the plurality comprises at least five of the markers.
36. A method for monitoring the progression of cervical cancer or a pre-malignant condition in a patient, the method comprising:  
25 a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;  
b) repeating step a) at a subsequent point in time; and  
c) comparing the level of expression detected in steps a) and b), and  
30 therefrom monitoring the progression of cervical cancer or a pre-malignant condition in the patient.

37. The method of claim 36, wherein the marker corresponds to a secreted protein.

38. The method of claim 36, wherein marker corresponds to a transcribed  
5 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

39. The method of claim 36, wherein the sample comprises cells obtained from the patient.

10 40. The method of claim 39, wherein the patient sample is a cervical smear.

41. The method of claim 39, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

15 42. A method of assessing the efficacy of a test compound for inhibiting cervical cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

20 b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting cervical cancer in the patient.

25

43. The method of claim 42, wherein the first and second samples are portions of a single sample obtained from the patient.

44. The method of claim 42, wherein the first and second samples are  
30 portions of pooled samples obtained from the patient.

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45. A method of assessing the efficacy of a therapy for inhibiting cervical cancer in a patient, the method comprising comparing:
- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is  
5 selected from the group consisting of the markers listed in Tables 1-4, and
  - b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,  
wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious  
10 for inhibiting cervical cancer in the patient.
46. A method of selecting a composition for inhibiting cervical cancer in a patient, the method comprising:
- a) obtaining a sample comprising cancer cells from the patient;
  - 15 b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
  - c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
  - d) selecting one of the test compositions which induces a lower level of  
20 expression of the marker in the aliquot containing that test composition, relative to other test compositions.
47. A method of inhibiting cervical cancer in a patient, the method comprising:
- 25 a) obtaining a sample comprising cancer cells from the patient;
  - b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
  - c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
  - 30 d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

48. A kit for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 5 49. A kit for assessing the presence of cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.
- 10 50. A kit for assessing the suitability of each of a plurality of compounds for inhibiting cervical cancer in a patient, the kit comprising:
- a) the plurality of compounds; and
  - b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 15 51. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the method comprising:
- isolating a protein or protein fragment corresponding to a marker selected
  - 20 from the group consisting of the markers listed in Tables 1-4;
  - immunizing a mammal using the isolated protein or protein fragment;
  - isolating splenocytes from the immunized mammal;
  - fusing the isolated splenocytes with an immortalized cell line to form
  - hybridomas; and
  - 25 screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.
52. An antibody produced by a hybridoma made by the method of claim 51.

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53. A kit for assessing the presence of human cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.

5

54. A method of assessing the cervical cell carcinogenic potential of a test compound, the method comprising:

a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and

10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4,

wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound

15 possesses human cervical cell carcinogenic potential.

55. A kit for assessing the cervical cell carcinogenic potential of a test compound, the kit comprising cervical cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in

20 Tables 1-4.

56. A method of treating a patient afflicted with cervical cancer, the method comprising providing to the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-4.

25

57. A method of inhibiting cervical cancer in a patient at risk for developing cervical cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-4.

Table 1

## Sequence 1

GCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGGAATTATAT  
GTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATGAAAANTTAAATATTTAG  
T  
TTGGGATTTGAGACTTCGATCTAGGCCTCTGNATTCTTTCTAGTTTTTCCCTACCAT  
T  
CTTTAATCGGAGTATCCAAGCCCAATCACCCCTGTANCCTATGTCCTAAAGCATCTTGAAT  
TGNTTGNTTCANGTTTTTNCCTTCATGNAGGAGTGTCTTTTGCNCACNCCTCTTAAGCC  
TA  
TCTGGATCCCCACTTCANNCCTCTGAAGGGTTCTGTAAAAANTTCTAACCCCTATCTNT  
AT  
NGAATTTGTCCCC

## Sequence 2

GCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC  
CGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCT  
TTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG  
CATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGG  
AATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 3

CGGAGAGGAGTCCTTACTTAGAGTNAAGCTGAAGGAGCATCACAACCCCAAAGACTGTTA  
TGTTGTGAAATTTAGGCTGTGTTTTAATAATACTGATGATGATANGATGAAATAGTAAT  
T  
TATTGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTCGGAATC  
T  
CATTTGATCCTCATAGTTTTTATTGGTGTATTATTATCCTCATTTTACAGATACAGAAAC  
TGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGA  
GGACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAATGTTTAGAA  
TATTAATAAGTTACTCAGATAATCTATTGGAATTTTCTTCATGGCAGGGGGAAGAGGCTA  
GAGTTG  
G

## Sequence 4

TACTCAGTTTCCTTATCTATAACATGGGGATAATATTANGTATGCTACATCCGTTGTTA  
T  
GAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTNTACTAAATGGGNAAGG  
TCTGGCNGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAGGCTGAGGNGGGG  
GCAGTTGGGGAGCGAGGGGTTGTACTACTNCAATGTAACCTTGCTTCTCAGAAATTNAGG  
CNAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCNTGCCTTT  
AAGGAGCTTATAGTCTAGTTANGAAACCAGACTTAAACATATGAAAAGTTTAAACATTGG

## Sequence 5

CTCTTTCATTGAAAGGAAATTANGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGA  
GGCTGGCTTATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATTGC  
CTTTCACCTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAGTCAGCATGTC  
TC  
TAACCCAGAGCCAGGCTGTGCTTTTTTTGTACCT

## Sequence 6

CGCGGTGGCGGCCCGCCGGGCAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG  
GGGCATTGGCTGTGGAATGTGGGCAGTAACCTGCACAGTCAGTAACCGTNNAGTAACCTG  
GTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCCACCTCACACGCTGGTTTG  
TGGGCGGAGGGGAGGTTGGTGCCGTGGGGTGTCCGGGCACTGGCTGTGCATGCCTTCTT  
CCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAGTCACCAGTGACCAATTCTCCAGT

Table 1

GT

TTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCGACTGGCAAGTTTCATT  
CTGACCAAGCTCTATAGTAGTCCGGNGTGGACCTCTTGCCCTCCCTGCTCTGCGGAAAGC  
TTNCTCAGCCTTTGCTTCTTCACTTATTTACTATTTGCGGGGTCTGGGGGTACCCCTC

GG

NCGCTCTAGAACTAAGTGGGATCCCCCGGGCTGCAAGGAATTGCAATATCAAGCCTTA  
TCGAATCCGTCNAACCTTCGAAGGGGG

Sequence 7

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC  
ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAACCTCTGTAAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGA

TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 8

AGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAAC  
CAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACC  
ATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTGGAATCTAAC  
TCAGCGGAATTGTATCCGTACCTCGGCCGTTCTANACTAGGGGATCCCCCGGCC

Sequence 9

GGTGGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGGAGCTGTGGC  
AGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAGAGCTTACCAAGGAGGTGGCATTG  
CACTGTGCTTAAGGGGCAAGAAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGA  
AGTGCTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTCAACAGTCAATCATGATGGCT  
GCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAGGCTGAGGGTGGGAAGA  
TTGCTTGGGGCCAGGAGTTTGAGACCAGTTTTGGGCAAATTGCAAGACCCTGTCTCTGCA  
AAAAAATATAAATGTAGCTGAGTGTGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGA  
GAGGCTGAGATGGGAGGATCGCTTGGGCCTAGGAGTTTCGAGGCTGCAGTGAGCTATGATT  
GCACCACTGCACTCCAGCCTNGGTGACAGAACANGACCTGTCTNTAAAAANCATTAAATT  
AAATCAAAAAAAAAAAAAAAAAAAG

Sequence 10

GGTGGCGGCCGAACATCCTGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCAAA  
ATAAAATTTAGAAAAACAATTTCTTATAAAATTTCTGTTTGTATTTGGACTACATAAA  
CTGGCTTTAAATGAGAAATATGCCCTAAACCATAAGGAAAAAGCCAACAGAAAGAAC  
AAAAAGATCACAGCAATTAGGCCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACAT  
TCTTCACAAAGTAAATTACCGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGT

G

ATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTTTATTTAT  
ACCTTAATGCCCGGAGAGGTAATATTTTACTTTAAATGCATAACCCATGTGGACATGCT  
AGGTCTTCCAAA

Sequence 11

GGTGGGGCCGGGCCCGGACCCGGNCCAAGACCTACCCGCCGGNGNANTTGGCCTNNGGGCC  
CTGGGGTTTTCTCCCNAGGGGAAGCCTTGTAAGAATCCACCTNGGAAANCCTTGTNNGGNT  
CCGCTTGCCCCGTNGNATGGNTGGNGTAGGGGAAGGGCAAAGTACGCCTTCAAGAATAGG  
NAAAAAGGGANGGGGGGGGGNACCACTCAAGGCCTGGCAAAGGCCAAGTGGGACCAAG  
TGGCCCAAGGGGGCTTCTTGAATGGTGGNTCTCTCACAAGCTTTGTAANAAAGGTGGTG  
GAAGAACCAAGCCTTGNCCTTTTGTGGGTCGNGNGACCTTGAATAAAGGGCCAAAAGG

Table 1

AAGTTTGGTTTCCCTTGGCCCCNTTTTCCCTTNTTGNNTGGAACCTTTTGGGAAA  
A  
GAAAACCCCCCTTGGGACCTTTTTTGGTTTTTCTTTGGCNAAAAAGGGGGCCACCCC  
TTGGCCAAATTGGATGGTTCCTTGNATTGGTTTTTCCGGTCGCTTANGGGGCCAATT  
NA  
NAANTTGGTTTGTAAAGGGGAAAG

## Sequence 12

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTGTATTATTTAGTAG  
AGATGGGGTTTCACCGTGTGGCCGGGCTGGTCTTGAACCTTGATTTCAAGTGATCCGT  
CCACCTCAGCCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
CTTTTTTTTTTAAACGAAAAAATGTTTTAATTGACAAATAAAAATGATGTATATTTA  
TGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTCTCATCACTGAAACCTACAAATATT  
TTAAATCTTTCCATTAAAAAAATTTTGTGATCATTCAACCTCTTCAAAATTATTAAGAG  
ATACTTACTTTGTATGAAAAATTTTGTGAGATGTATAATCCATTTTTTCTGGGAAG

## Sequence 13

TTACTTAGGGCGAATTGCGNCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAC  
GATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATGAGACTTAAAGAAGGAA  
AGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTTCCCTGATCCGGAGCCAGTTTGTGG  
GAGGGAGTCCCAAAGCAGGTTTGAAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAAA  
ACAGTAGAATCGTACCTGCCCCG

## Sequence 14

TGGCGGCCGAGGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGG  
TCAGTTGCTTGGGGGACAAACAAGAAGGAAAACCTCTGAGACAGTGGTCACAGGCTCCCTA  
GATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTG  
GAGGGACATCAGCTGGGAGTGGTGTCTGTGGGACATCAGCCACACCCTGCCATTGCTGC  
ATCCAGCTCTNTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA  
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATCCCAGTN  
TCTGGCCACAGGAACCTCATGTGCGGAANGTGAACATTTTTGGTGTGGAAAGNNGGAAAA  
GGAA

## Sequence 15

GCCCCTGCCCGGCTGGTTATGTAACAAACAAAGTCTGTGTCTGTGTGGAGTGTTCAGGA  
CGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG  
TTCCAGTGCCCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAACTTCCATAAAAAGGGTC  
AGAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAG  
TCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAA  
GAGAGGCTGAGGTGAGCACGAGAGACAGCCAAGCGGCCCTGTGGGTGGCTTCTTCTGGATG  
GTTTTCAAGGAAATCCAACA

## Sequence 16

CGGTGGCGGCCCGCCGCGGCCGAGGACGCGGGAAGAGGTAATTTAATGCCATTTTCATGGGA  
CACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGG  
NNGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTGCGACACATTCCAGACATATTTAGG  
GGTGGAGGTGGTTGGATATGGGGAGTT

## Sequence 17

TTGCGGTTGGCCCCGCGGCCGCGGCCGAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGGCA  
TTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACACGCAGGATTGAGA  
GAGCATNAATTGAAAAATACATATGATTGGCTGGGCGTGGAGGCTTATGCCTGTAATCCC  
AGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGCGGAGTTCGAGACCAGTCTG  
ACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGCAC  
ATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACC

Table 1

## Sequence 18

TNCCGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCA  
TTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAACTGGCTCCGGATCAGGGA  
ACACTACCAAACCAACAGCAGTCAAATCAGGTCTTCCCTCTTTAAGTCTGATACCAT  
A  
ACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTTAAATCCTGCTGCAGGAATGACA  
CCTGGTACCTGCCCCG

## Sequence 19

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTATTTTTTTTT  
T  
TTTTTTTTTTTTNCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATT  
TC  
TACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTTTTCTG  
TGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAGCACTGTGCTCTGNGGGA  
TTCTGGTCAGCCTGGCCAGTGGTTTTTTTCCCCTGAACACNCCTGAAAGGGGAGCTCAT  
AATGACTGCTGTGCAGGTGGGCGGGGAGGGGGCTTCCTATTTGATTTAGNGGCTGATCAA  
TGCCAGTTACCAATTNTNGGTNGCCCCATTTATACATGGNGGAAAAAAGTACCT

## Sequence 20

GAGGTACCCAATTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTCAGGGT  
G  
TCCATTAAGAGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAGT  
AGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGGACACAGCTCCT  
CTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACAG  
CAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTGGT  
TAAAAATACAACCTTAGGCCAACTGCAAGTGGCTCATGCCTGTAATTAATCCAAC

## Sequence 21

GTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCAATTACCAC  
AGCTCAAACCTGCTTTGGGACTCCCTCCCACAAACTGGCTCCGGATCAGGGAACACTAC  
CAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACACAGA  
TGCTCACACTGGGGCCAGATCTGCATCTGTTAAATCCTGCTGCAGGAATGACGCCTGGTA  
CCTGCCCCG

## Sequence 22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAGACGTT  
GATAGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACCAA  
GTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAAT  
TTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGG  
AAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGG  
C

## Sequence 23

CGCGGTGGCGGCCGAGGTACANAGTAGAGAGAGTTCTGCAGGGATGAACGTGGGAGACGT  
TGATATGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACC  
AAGTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACA  
ATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAA  
GGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGC  
CCAGGTTGGGGT

## Sequence 24

CCGCGGTGGCGGCCGAGGTACAAAAAAGCACANGCCTGGCTCTGGGTTAGAGACATGCT  
GACTGATGAGATACCAAGGCAGCTGCAAAGGAGAGTCCGGTAGTGAAAGGCAATGCGCT  
GTTAGCTCTAAGCAGCCTTGCTGTCTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGA  
CTCTGACGGGCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCAT

Table 1

GGTACCTGCCCC

Sequence 25

CCGCGGNGGCGGCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGT  
TTTGTAACCTGAACCTTTGTTTCAGTTCGCGCTCCAGCCATCCTGGGGTNGCTTGCCA  
AT  
AGATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCC  
C  
ACAGCAGTGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC  
TTCTTTCCTTACAC

Sequence 26

GCGGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCT  
CCATCACACGCCCCAGAAAGGACAAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATT  
GACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGCAAATACTCGTTCCAG  
TTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGG  
ATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCC  
GG  
ATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 27

ACGCGGCGGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCT  
CTCCATCACACGCCCCANAAAGGACAGTAGCCAGCTTNTCTGGATGCTTTGCCAAGCAAT  
TGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGCAAATACTCGTTCCA  
GTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAG  
GATCATAGTTTCTTGGAACCTCTCTGTAAGNCNCAACTTGGTTATCGCCGGACATAATTGG  
ACCCGGTATTTCCGGCTCAGNCATCTTCACCTTTCATCTAAGGNTTGCATNTTCCGGGCC  
CGNTCTAAGAACTAGTGGGATCCCCCGGGGCCCTGCAGGGAATTCGATAATCAAAGGCT  
TAATCTGAATACCCGGTCCGACCCCTTCGGAGGNGGGGGGGCCCCGGNTACCCCAAGCTTT  
TTTGGTTTCCCTT

Sequence 28

CGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCTACATCGT  
TGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAAATT  
TAAGGNTTGGCAGGCGCGGTGGCTCACACCTGGNATCCAGCACTGTGGAAGGCTGAGGT  
GGGGGCAGTGGGGAGCGAGGGGNTGTTACTACTCCAATGTAAGTCTTTCTCAGAAATTA  
AGGCAAAAAGTCTTACTGACCATGTNAAGGAAATCCAACAATTATAAACAGTCTCTGCCT  
TTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTG  
GCCAGGCACAGTGGCTCATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGAT  
CACCTGAGGTCANGAGTTCGAGACCAGCCTGACCAGCNTGGAGAAACCCCATCTN

Sequence 29

GCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCT  
ACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTA  
C  
TAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTC  
AGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGGAAATNCAACAATTATAACAG  
TCTCT

Sequence 30

GGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTACGTAGCTACAT  
CGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTCTACTAA  
A  
TTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGAAGGCTGA  
GGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTCAGAAA

-Table 1

TTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCTG  
CCTTTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACA  
TTGGCCAGGCACAGTGGCTCATGCCATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAG  
GATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCATCTTTA  
CTAAAAATACAAACTAGTTGGGCATGGTGGCGCATGCCGTGTGATCCCAGCTACTTGAGA  
GGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTCGAGCGGCCGCCCGG

Sequence 31

CCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTA  
GCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTT  
C  
TACTAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGG  
AAGGCTGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTACTACTCCAATGTAAGTCTTT  
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAAC  
AGTCTCTGCCCTTAAGGAGCTTTATAGTCTAGTTAAGAA

Sequence 32

GCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATC  
ATGATGTTACTTTGATTCTCTGACCAAACTGGCCTGTGAGCACCCCTGGGCCTTTCTTC  
CT  
CTGTCAAAGGCCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAAAGGATGTA  
ACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAA  
CCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACTCAAGTGGGAAG  
GGGAGTGGGCTGTAAATAGTTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGT  
AGAAAGGTAACAGTCAACAGTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTCCTCTTGCCCA  
GCGTTTCTTTC

Sequence 33

CCGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAG  
TTCATATCATGATGTTACTTTGATTCTCTGACCAAACTGGCCTGTGAGCACCCCTGGGC  
CT  
TTCTTCTCTGTCAAAGGCCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG  
AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAA  
AAGGATGTAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTG  
GCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACTCA  
AGTGGGAAGGGGGAGTGGGCTT

Sequence 34

GCGGCCGAGGTACCAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTTGCCACTTGC  
AAATTCGGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGG  
GCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTCCCCACCCCCCA  
T  
CATTAAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGTGCATATTTG  
G  
AAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAAGTTACAGTATCTGTTTCCC  
A  
CAATACTTGCAAGTCATATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAAGGACCTAC  
CTACAAGGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTTAA  
A  
TAATTTTTGGCTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAGCCAAAAAGGCCCGGCAAC

Sequence 35

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC

Table 1

ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGA  
TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 36

CATNTGTGTTTTATTGTGAAGGGTCTCAACTGTGTGGCTGATTGAGGCTGTCCCCACTG  
CAATGTAGGGAGAGGAGAGAGAAAGGGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTNC  
ACCGGGGTGAACTTCTGCCTGAGCAAGNTGATGTTGGCTTCGANNGTATTTGGGACACT  
TTCTTTCAATACATNTNTTATTTAAGCACTTTATTCTGTGNCTGCTGCCCTG  
G

Sequence 37

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAACATGGCGGCCCTTAGCAAGCTAT  
AGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTGCGCTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAA  
GAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGAGTGGGGTTCATATTCCTCAGCG  
AGTAGCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAG  
CTGTTTTATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACT  
GTGAACCATGTCAGGTTCAAGTGAAGTGAAGTATCATTTG

Sequence 38

CCGCCGAGGTACTTAAGTTTTCTTCAGTTACAGCTACCATGTGAAAATAATTCTCTGC  
T

TATCAAGTTTACAACCTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACA  
GTCATCTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGAAATCA  
ACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACA  
CAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAGAAAAGGCTTAATAATGGAGATGAGG  
CCGGGCATGGTGGTTCACACCTGTAATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATC  
ACTTGAGACCAGGAGTTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTT  
NAAAANTNAAAAANATNNGGTTCTGCCCCGGCGGGCGCTTAGAACTAGTGGGATCCCCC  
GGGCTGCANGAATTCGATATCA

Sequence 39

TCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGCCCT  
GAGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAGGA  
ACCAGGGCATCAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGT  
GGGGATGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTTGATAGTCAATTACC  
TAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCA  
GCACTTTGGGAGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTGAGACCAGCCTGGC  
CTACATGGTGAAACCCCATCTCTACTAAAAATACAAAATGAGCCAGGCATGGTGGGCAC  
CTGTAATCCCAGCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence 40

GCCTCCCCGCGGTGGCGGCCGAGGTACAGTTTAGAAAACGTGGGGCTGAGTCCTCGGGG  
CCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTATGGGGATACATTCTCTTA  
GACATTTTGAAGTAATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGC  
A  
TAATCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGAATTATAGAAGCG  
A  
GAATCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGATGTAGCTGCCATTATAT  
TCATTGAGGTATTTTCAAAAAAGGCTGTTCTGTAGCCAGTGTGTTAAGATATACAGCA  
AAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTG

Table 1

TAGACATTGTGATTGTGCACATACTTNCCGGTGAGCATGGAGGACCGTGACGGGCAGCAC  
ATGGGGTGTAGTCACAAAGGCATTGATGAAGGTGGCCCCCATGTT

## Sequence 41

CCCCGCGGTGGCGGCCGCCGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATAT  
GTATACATGAGCCATGCTGGTGGCTGCACCATGGCACATGCATATCTATGTAACAACT  
TGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGAAAGAAAAACAG  
CATGCAATTCAGCCACACAAAAAAGAAGTCAAAGACAGCGAGAATTCTTAAACAGC  
AATAAAAAGTATAAAGTCACTCTAAAGGAATCCCCGTTAGATTAACAACACATTTCTTA  
GAGAAATCTAACAGGCCAGGAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGA  
AAAAACTCCACTCAAGACTACACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAA  
TCTTCCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGCCTTACCAAAAA

A

## Sequence 42

NTTGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGC

T

ACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 44

GGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG

C

TGAGGNGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGATCACAAAC  
ACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACTGTAAAAAATTTTTTACATT  
AATTTTTAAAGTGAGGTTTTACCTGATGATTGNGTAGGTTTCTCCTAGCTCCAAAGT

A

TCCGGCTCCTACGACTCTAAATATAACCTTCAAGGAAAGNNGGAGCTGGTTTACTCTTTTC  
TGATAATATCAAGCCATTCTGGCTGGGCGTGGNGGCTCATGCCTATAATCCCAGCACTT  
TGGGAGGCCCGCGTACCT

## Sequence 45

GGGNGGCTCCACCGCGGTAGGCNNGGCCGCCGGGCCAGGTACGCGGGNAATTCAAGGAT  
GGGATTAAGGATTTAAACCGTTTAGGACCCTAAAAGCATAAAAACCCCTTAGAAAGGAA  
AATCTTAGGGCAATACCCATTGGAGGGACCTTAGGGCCTTGGGACCAAAGGACTTTCATG  
GACTTAAAAACACCCCAAAGGCAATTGGGCAANCCAAAANGCCCCAAATTAGGNCCA  
AATNGGGGATTCTTAACCTTAAACTTTAAAGGAGGCTTTNTTGGCCCCAGGCCAAAANG  
GAAACTTTCCCTTCNAGANGGNGGGACCCNNGGCCANCCCTTTCNNGGAATNGGGGG  
GGGAAAAATTT

## Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGTACTCGGGAGATCGTGCCACTGCCCTCCAGCCTG  
AGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAAGATGTCAGTGCTATTTATAG  
TAATACAAAAATTTAATGTAATTTTGTCAAATCTCAATGGTATATTTTGCAGATTTT

Table-1

TCAAATTATATATATGATTTATAAATTATTGTTATAGATTCTTGAAAAGTTAATCCAT  
CTCACCATTACATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAGACCATCCTGG  
CCAACAAGGTGAAACCCCATCTCTACTAAAAAT

Sequence 47

CTAACCTCACATTTAATTGCGTTTGCGCTCACTGCCCCGCTTTTCCAGTCGGGGAAACCT  
TGTTCTGTCAGCAGTGAATTTAATNGAATCGGGCCCAACNGCCGCCGGGGGAGGAGGG  
CCGGGTTTTGGCGGTATTGGGGGCGCCTTCTTCCCGCTTCTTTTCGCTCACTT  
GAA  
CTTCGCCTNCCGCCTTCGGGGTCC

Sequence 48

CGCGGTGGCGGCCCGGCCNAGGTACAAGNGACAATGCTGGATGCCAAGCAGNTCCCC  
CCTACCGTCTCACTGCCCCCTCAAGACTTCAAGGCCACTCTCCCATAAACATCATGACTA  
CAGATTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCA  
AGATGCCATTTCTGCATCTCCCAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
TCGTTGGGCTCCAGCAGTGCTTNCCTNCTCCACCCTGCACTTCATTTNGTTCTTTCC  
CC  
CCCNAACTTTT

Sequence 49

GCGGCCGAGGTACAATAATGGAGCTCAGAAGCTGTCAAGGATATAAGCAGTGCAACCCA  
AGACCTAAGAATCTTGATGTTGGAAATAAGATGGAGGAAGCTATGACCTACACAGAGGA  
CAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCA  
AGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACCTGCCCGGGCGGCC  
GGCTCTAGAACTAGTGGATCCCCGG

Sequence 50

GGCGGCCGGANGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTAC  
ATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAG  
TATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGG  
CAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAA  
TTTGGAATCTAACTCAGCGGAATTGTATCCCGTACC  
T

Sequence 51

NGGCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCCCGTG  
CCTTCCAGAACTGAACGCTAGGAGGAGCAGNCAGNGAGGACAGACGTCTATGCAGAAACA  
TGGNGAACCTCTGGAAATGACACACTCTCCGGGCNCAGGGGGCCATTCTGCCATCTTTGA  
GGTGGACTAATCATGGAGATTCTNGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGA  
GAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTGCGGGGCTGATGAGTGAGGTGGC  
AGCAGGCATCCGCGTGTTTTGTTGAACTGGACTTTTTATTGTGCTGAAAGCTGTTT  
GT  
TGTGATGATCTCATACTTTGNAGTTGNTCTATCTGCANCACTGACTTTC

Sequence 52

TCGTTNGAAGCCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTGG  
CA  
TTCTGAAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCACTGAACNG  
GG  
CACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCCTGAGTTCTAGAAAAGCATTTT  
TACTAGTTCTTCAGTAATTTCCCCTCCCCTTCATTCTCTGTTCTTTTTCTCGGACTC  
C  
AATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGG  
GAGGGAGTTCTGGGAGTGTTATGTGGGGTGGTGCANAAGGTGCTAACAGGTGGNTTNT

Table 1

CTTTAGGATGAGCAGGTGG

Sequence 53

GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAG  
AGAGTTCCNNGAACTATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTG  
GATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTC  
CTTCTGCGGGCCGTGTGATGGAGAGGTTAGAAATTTGGAATCTAACTCAAGCCGGAAAT  
GTAATCACGTACCTCGGCCCGCTCTAAGAACTAGTGGGATCCCCCGGNGCTGCAGGGAAA  
TTCCGATATCAAGGCTTTATCGATACCGGTCNACCCTNGAGGGGGGGGCCCCCGGTACC  
CCAANCTTTTTGG

Sequence 54

CCCCCGCGGGCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACATACATAAAAAATAG  
AGGGACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGATTTAGATG  
ATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCTTTCTGTAAACTGGCA  
A  
TTTGGGAAGCATCACTGGATAAATTTTATTGAATCTATTCAAGNCAATTCTGAGGCTT  
T  
AAAAGCTGGGAAGAAAGTGAACTATCTCATGAAGAAGTTATGCAGAAAATCGGTGAACT  
CTTTGCTCTAAGGCACCGTATAAACTTTGAAGTTCAGGACCTTCTGATTACTCTGA  
TT  
TCTTACTGGGGACAGGAGAAAACCNNGGAAGGGACTTTACCGATAAAAACCGTGGTCAA  
ATTCTTTAGCCATTTGGCCCCGAAAGANGTTAAGGGTCCAATGAAATTGAAA

Sequence 55

TAGCAGGAGCCCCAGGAGTCTGAGCGGNGGGACCCTCATGTCCATGCCTGTTGTCCCTGG  
ACNTGAAGACCTGAACTCCCCCGCGTACTCTCGGCCCGNTTCTTAGGAACNTAGGTGGG  
ATTCCCCCGGGCTGCTAGGGGAATTTCCGAATATTCAAAGGCTTAATTCGAATACCCCG  
GTCCGAACNCTTCGNAGGGGGGGGGGGGGCCCCGNNTTACCCCAAGC

Sequence 56

GCGGCCGAAGAGCACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAA  
GCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTG  
GAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 57

CAGGGAATGGGNGGNGGCTNCACCTGGGGANNCCTGAGGCCCGTGTGTTGTGGAAGATGTA  
GATTCCTTCATGAAACAGNCTGGNAATGACGACTGCNGATACAGTATTAAAGAAGACTGG  
ATGAACAGTACCT

Sequence 58

CGCCGCGCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTC  
ACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCNCGTGTGAGNTCCAAAAATCCTA  
AGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAATATTGCCACATTCT  
T  
GAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTTTCA  
A  
GAGTGAAAAGTGGTCCACGTAGAGCACAAATATAATTTAAGTAAAGGAAGATTAAACATA  
TTTTTATCCATTTCTTATGGTGGNNNNATTACATGTTTTAGATTTGAGGTCCCCCTCTC  
A  
GGAAAACCTTTCAACTTCGTATTATTCACTCCTGAGTAGTATGGGGGTAGAAAAATGAG  
TGGGAAATCAGTTTGGTCCACTATTTCCCGAGTCTTCTTGCACTTGCAAACTACTTC  
A

Table 1

TCAAAATATTTTACCAAAAAATTCANGCNCCTGTTTACCAGGATGGTGGTATCACNATC

A

GGGCTCAAACCAAAGNTTACAGGAAATTCTNTTGGNNGGTTTTTATCCTGGGACNATTC

TAAATTTTAAAAAACCTAAAAAGGTTATTTATTTCTTCNCNAATTTATTCANNTGNTT

TTTAAA

Sequence 59

CACGCGGGAAAGATCAGTTGNTTTACCTTGGCATTCAAAGACTTTTCTTTGACTCCCATG

GTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGNNGGNGGGAACGTGTTAGCA

CTGCAAATTCTCATTCCCTCCCTAATTTCTGAATCANAAATTACGGAGGTGGAGCCCAGC

AATCTGTTTTAACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGGAGAACNCGC

T

GATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGTTAATTG

A

CCTTGTCAGTCATACAGCTAGGGTCTGTTTTCTATTATTTATTTATTTATTTATTTT

TTTTATTCACTTTACCCCCAGGTATTCATAGNTTCTTTCTAAATACTCCATATTTGGA

CTTGACTTTTTACAAGTTTGTAATTACCAAATAAAGTCTAAAGATGGGGAAAGGTTGTGG

GAAAACTTTATAGAGAACATGAGATTTTGACTGAACCACTNAACATTAAGTAGAGAGNAA

AAAGAAAGGGGTGTTCTAAAGCAGTAGGGACCACAGTGAATAAAGGAGAGATAGGGAA

GNTTTAAAAAAA

Sequence 60

ACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACG

AGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGNGATGGAGTCAATTGCTT

GGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAG

AATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 61

TCCACTCCCGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTTGTAGTCTCT

GTTCTGCCCTTTGGAACATCTNTTCGGTGTTCTGTGGGATCTCTCTACTGCATTNTA

CT

TTATGTAATAATCTGTTCAATAAATAATTTTTAAAGGAGACAACAACGCCGCAGGTGAT

CTGGAGGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAG

GCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCA

GAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGC

TGTCACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGT

AAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGGAACCTCANTGCTGCAGCCTCAA

AGAATTGACTTTAA

Sequence 62

TGGCGGCCCGCCCGGCAGGTACAATGATGGCTGTCAACTTCGTTTGTTAAAAAAGACA

ATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACG

TAGGCTCGGAGGATGGGTACCT

Sequence 63

TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCGCTTTTCCAG

TT

CNNGGGAAACNCTGTTGTTGCCAGNCTGCATTTAATGGAAATCCGGCCAACGCCGCCG

GNNGNAGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTCCCGCCTTCTTCGGCCT

TCAACTTGACTTCGGCTTGCNCCTTCGGGGTCNGTTTTCTGGCTTGCCGGGTGCAGNCCG

GGNTATTCAANCCTTCAACTTCNAAAGGGGCCGGGNAATTACCGGGTTTAATTCCCAAC

CAGGAAATTNAAGGGGGGGAATAAACCGCCNAGGGAAAAAGGAAAACANTTGTGGAAGC

CAAAAAA

Sequence 64

GGGCGNTGGGCTGGAGGAGNGGAGCGGCNNCAGNAGGGGGGCGCCGGCCNCCCCAGCAGA

Table 1

NGNCTCCAGCAGCAGNNGNANCTCTGAGGCTCCANCNCCCACAGCACCGAACAGNGGGNN  
CCAGCNCCACCAGGGGACCCNGGANCCCGGGCGACGGCNGANCCAACNCNGAAGGAGNC  
NNAACCTNNNCNNTTGAGCGGNGGNNCNCNCCCGCGACCCCGAGCAAAAGGAAGCCCAG  
CNGGAGGGGGCGGNGGANNGACGCCNCGGGGGGCACAAACAACNNCNAAGGAAGAANN  
NGCCACCCACCAANCCNNANCAANACAACAAANGAANCAANACAACANAACCCAAAAAC  
GAGNAAAAAAAAA

## Sequence 65

ACCTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCACTCTCCTGATANGGNG  
T  
GATGGGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTGCCCTG  
T  
CCACTGCAGTCACATCTCCAATACTGAAGGATCCTGAGAATACCGAGCNGGTCATGACA  
CTTACTCACGTCATTACCANTTTTTTTGNACCTGCCCG

## Sequence 66

GCGGTGGCGGTNTCCCGGGCAGGCCACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCC  
ATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGTGTGCTCGCA  
CAGTGATGAAGTGTAAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATG  
ACAATTTATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTNNTNTAGATACTAGTA  
T  
AAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCANGGCTTTACAATTTAGCAGTNTG  
NAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTTTGTGACCTA  
AAACATGAAGTCAAGGTTTCCAAATTCCTAACA

## Sequence 67

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACAGGGATTTACAGGC

## Sequence 68

GGATAAGAAATTACTGTGTCAAATTACCCACAAGTTNTTGGCCATGTTCCAGACCTGTG  
GCTCTTAGTATCAGGCTTGNGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACCACAGGGATTTACAGGC

## Sequence 69

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATTTTCATCTTGACCCGCAATAC  
CAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGA  
GGTAAATTACTTAGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAA  
AAAGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCCTCAGGTTT  
GTGCCTGGAAGTTTACTGGTGCAGCAGTCAGGGAATTCCGCACCAGGGACAGCTCTGTC  
AAATTAAGTAGGTTGAAGAAAATTTGTACCTAAACCATGATTGTTCAACAGGTTTCCA  
TCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGAT  
ATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTG  
CTAAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGAATGCTCCC  
TCTTNTATGCTAACTGCAGAGACAGAGTTGNCATCTAAATGTAATCTTCCAGATAGG

## Sequence 70

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGGTTTCTCTG  
ATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGAC  
CTATATAGTTAAGGTTTCATGTTGAACAGCACTTTCAAGAGCTCGCACTCCACTGAC  
AT  
CTTTCAGAATATGCTGGACACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTC  
T  
CTTTAAGGTTTCTGGGGTGAAAGTATGCTTCCAAGGCTTCGTGGAACCGTTTCCC  
TT

Table 1

GTAAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCCAGTTCAGAATCATC  
C  
CGCTGTTTCCACCTCTCCAACAAAGAAAACCTGTTGTTTTGGTCATGGTCTGCTGAAGGA  
CTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGATTTTCAA

Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

Sequence 72

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATCATTTATTCAAGAGGCAGA  
TTTTAAACGTTTTTGTAAAAAGCTAAATAACACCCAGAGTGAATCAAAAAATTTCTCAA  
C

TTTGCCCAAGTGAATAGTAAGTCTAGAGTTTTTGGGTTTTTTTTTTGTGACAGAGTTT

C

TCTCTGCCGCCAGGCTGGAGTGCAGTGGCGATCTTGGCTCACTGCAACCCCTGCCCG

Sequence 73

GCGGTTNTGGGGGGCAACACCGANCCGAGAGNCACACTNGCAACAAAAGGNACTTNTT  
TGGGGGGGGGAAAAACCCCGGCCCNCCNGNCCAGCNGGACCATCNATTTNNTCCNCCNC  
CNCGGAGCNGCNCCCNAAGAGCNCANAAAGNAGAGANCAGNNGNCNCNCGGNGGCAAN  
CNAACANANANNCANGCAANGGAGGNGNANCNCCATGCTTTTTNNGNNGGGGGGGNNGCG  
CNACGCNCCCNAGAAGAAAAAACGCCNCAGNAACGGGGGGGGGNAGGACCCAGCCNGG  
GCGGNCGCNCNAGAACCAAGNGGAACCCCCCGGGCCNGCAGGAAANCCGAAANCAAGNCN  
NANNGAAACCCGNNNAACCNAGANGGGGGGGGNCC

Sequence 74

CCGCGGTGGCGGCCGCCGGGCAGGTACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTA  
AGATCAGAGCATAGTAGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAGG  
GGAGGACAGAGCTTTTATTTTGCTCCAGGTTAAAAAGAAAAAAAAAGCACATTCAACTCT  
ATGTAGTGTCTGTCCCAGGTCTAGAACTGGAATAGACCAACCAAGCCCAACCTTCTTA  
AAAGTAAGACTNGGTGCTTCCTGATTATATTTCAACTGCCTGGAAGCATGCAAGTAAAA  
TTTCCTTGATGGCATTCTAAGTTTCAACATATTCTTNCTAACAAATGCATTTACAAAA  
AAATATTAGGGATTGNGGTTTTTTGGTTNGGACTTTAAAAAAAATTGTTTTNAAANC  
C  
ATAATTGGGGGCCCTACCCCAAATGGATTCTTCTCCCCTACAGGTGGAGGGTTTCATT  
TTTC

Sequence 75

GCGGCCGAGGTACGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCT  
GTGCACTGAGCNGGCATCAAATATTAGTGGATGGCCTTGCCTCTCAATCTGCAGTAAAN  
AGGAACTAATCTGAAAGGGAANGANAGGACTGTGTGNCTTTTTATTTTTTAAATACGG  
AGTGTGCANTTTTACTGAATCTTGAATCATGCC

Sequence 76

CTTGGCCCTTGGNTCGGGGGCCNTTTNCCCCCAAGGGATGGGGNCCCNTGGNGTANGT  
GTTNGNGGGGCCCAATANGAGCGGANAGGTTAAANNCNAAGTAACNAACGACCGTAATCG  
TTGTAGTTCCAAATGGGGAAATTGGGGTNTTTTTCGGGNGGAACCTTAAGAAAGNNGCCTT  
CCAAAATTGGNGGTTNGGGGGGAAAGGAAAGGAATTCCCCCTTGGCCAANAAAAACNC  
CCACNCCAAACCCCAAGGAAAACCGGTTGGGGNTTTTTTGGGCCCCNTNGGAAAGGGGC  
NTNGTTCATACCTTGGGNANGGAAGGNAAAAATGGAATTTTCTTGGGGGGGGGGCTTG  
GTTCTTTTAATTGNAAAAAANATTNAATTAACGGACCCATTTTNTCTTCNAACNAAT  
AAAAGGCCCCCCACGTTNNTTCAATCCATCCCCCAATTTTTNTCCCTNCCCCTTTT  
T  
TTANCCCCTTTTTTTTCTAAAGNATTGGGCCAAAGNNTTNTCTTCNTTTNTTTNCCA

Table 1

A

CCNATTTTNAANGGGGGCCTTGGGGTTTTNGNGTTNTTCAANAANAACNTTTTTTTTT  
 GN  
 GGGGTAAGTCCCNACCCGNGNTANCNTTGGGTNCAAGNTTTCNNTTTCTTGGGGGGGGA  
 AAAGGCTTGGNGGTTTCCAANGTCCNTCCAATTNTCCTTGGGCCAAANGGGGGGCCTTTT  
 NCCTCCCCCTTCCCCTTNCCTTGGTNCTTTTT

Sequence 77

AAAAAGNGAATTCCANCNTGGGGGGNCTTGGNGAAAAAGCCTTCTTAAACCANGGGGCCAA  
 TTTGGCNCAGGCCCCCTAAAGCCTTACCCTGGCCAAGTTTTTTGAAGAGCCAAAGGGGGGC  
 CAAGNGGGTTCAACCTTTTAACCCCTTGCCTGGTTCTTGGAAATTGGTCNTCCCCTTGG  
 GGGGAACCAAAACAAGGGNAGGGGGCCTTGGCCACCTTCAACTTGGGCTTGGAGGTCCA  
 AGAACAGGAAAAGGAAGGGGGAATCCATTCCGGGGACCTTGGGAAAAGNCCCTCCTTGGG  
 CCAAGGGGGTAATTGGGGCTTAGGCCCTTGGGGTTTACCCCGGTTAAGTTGGAAGAA  
 AAATNGGGAAGNAAGGGGGGGCCCCAACCTTGGCCCCCAAGCCNTTAACCACCAAGGAA  
 ATGGTTTTTTTCCCCAAGGGGAACAAAACCAAGGGGAAGGGCTTTGGTTGTTTCCCC  
 ACCTTTGGNACCAAGGTTTTTCAAGNACCAAGGGAAAAGTTGGGGGAAAACCCCAACCT  
 TGGGGGNACCCCCGGGGAAAAGNCCTTTCNTTANNCCAAAGGNTGGGTTTTGGCCCCCAA  
 CCCCCTTGGGGGCTTAANCTTTANAANTTGGGAAGGCCCTTTTGGAAANAACCCCAAG  
 GCCCGGAAAAAACCCAAAATTTAAAAATTTCAAAAAAGGGAAAGGCCAAGNTTTTCNTT  
 GTNCCCAANAAGGN

Sequence 78

TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCATTAGCCTGGN  
 TTCCTGTGTGAAAATTGTTANTCNCGCCTCACAAATTTNCAACACCAACCATTACGGAAG  
 GCCCCGGGAAAGNCATTAAAAGTTGGTAAAAGCCCTNGGGGGGTGCCTAAATGGAAGNTG  
 GAGCCTAANCTTCAACATTTTAAATTTNGCGGTTTGGCGCCTTCACTTGGNACCCGGCTT  
 TTTTCCAANTTCCGGGGGAAAACCCCTTGTTCGGGTNGCCCANCTTGNCCATTTTAAAT  
 GGAAATCGGGCTCCAAACGNCCCCGGGGNGNAGAAGGGCCNGGTTTTTGGCCGGTTATT  
 TTGGGGGCCNGCCNTTCTTTNCCGGCNTT

Sequence 79

GAGGTACTTTGGGCCTCTCTGGGATAGAATGTTATTACGCAGGCACACCAAAACAAGAAG  
 GGCAAGTTTCCAAGGATTTCAACCTGCTTCAATCAAGAATGGGGCGGGGGGGAAGAATG  
 AAAGAACCAGGAATGGGTGGCCAAGGCCACCAGGTTTCGTTTTTNGANTCCTCCCACCC  
 TTTGGGGTTCCCCTTCCCGGCCCGAAAAGTGGAACCCCGNATGGTCCCCTTTCCATA  
 ATTGGTTTTAACAGGGTAAAAATAACAACCTNGCAAGAAAATNCTTTCAAAGGGCCTCCC  
 AAGNCCCTTGCNTTGAATTGGGTGGAAGAAGGTGGAAAAGGTTCTTGGTTCCCCCAAG  
 NACCCCACTTGGCCCAACTTGGAAACCCCTTGGTCTTGGCCGAATTGNTCCAAGGTN  
 GGGGCCCCCNTTGGTTTTGGGGAATTGGTAATTCCAAGNAAGGAATTGNAAGNGGGAAGC  
 CCCTTTGGGGGGNAANGCCCCCTTGGGGCCCCAAGGGGTTTTTCTTGGGCNTTGGGGTT  
 AACCTTGGCCCCCGGGGGCCCCGGGGGCCCGGNCTTCTTAAGAAAACCTAAGGTNG  
 GGGGAATTCCCCCCCCCGGGGGCCTTTNGCNAGGGGNAANTTTTCNCAATTANTTCCAAA  
 AGNCCTTTAATTCNGAATTNCCCCCGGTTTNGAACCCCTTTTGNANNGGGGGGGGGGGG  
 CCCCCGGGGTTNACCCCAAGNCNTTTTTTGGGGNTNCCCCNTTTAAANTNGGAAGGG  
 GGGTTTAA

Sequence 80

TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTACGGCCTCTCT

Sequence 81

GCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCACGGTGGGC  
 ATGATATGCAGAGGGACTTGGGGCTTTGCCAAAGGGTAAGCACAAGAAAGGATCACGGG  
 TTCTGTTGAGGCACTGTTGGGATTAGGAGCCGGAGGGGACCTACTTTTGCAGGAACCTA

Table 1

GCATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCANGCAAGTGGCTCAGTAGTTG  
GCCAGCCCAGCAGGGTCCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAG  
CAGCAATTGGAGCTTNAGGACCGGCTTGCACTGTGGCTCCAGGTTATACCACCACTGCCC  
AAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGGAGAAAGCTG

Sequence 82

TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGG

Sequence 83

CGAGGACCTTGTTGCAGCTCTTTATTTCTTAAGTCCCCTCCCCGAGGTAACACATTT  
CT

GCTTTTTAGCTGTTTCCTCTAGTGTAGGTTACCTNGCTAATTTTTGATTCAATCACT  
T

AACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATTTTTNTTTTC  
TTTTTCCCTTCATCAAGGAAGTTCATCAAAGATTTTCATCAAAGTTCAATGATGACCTC

T

TTTTAAATTTTCTTAGTATTCTATGTAACATACCCGATCTTTTCCCACACACTTCAA  
GAGGCTTTTTTAAANATAATNTTTTACATAGGCCNTTGAGGCACANGATTAACCAAATCC  
CTNTTTT

Sequence 84

GTGGCGGCCGANGNACTNNGGCCTATNTGNGANANAAGGTATTNACCNNGNNCACAACAA  
ANGCATNNTCCATATTNNAACNGCTCATCATATGGNGNNAANATNNGACAGANGGTGCA  
ANCACNNTNCACTNGATATACNCCTTGGTNCCTCCGGCCGCTCTAGAANCTNANTGGGAT  
CCCCCCCCGGGGCCTGCAAGGGAAANTTTTGAATAATCAAAGCCTTTATTGGAATAAC  
CCCGNTGCNGACCCCTTNCGAAGTGGGGGGGGGNCNCCCGGGTAAACCCCCCAAGACCT  
NTTTATGGTTTTCNCCCTTTTTTAAAGATTGNAAGNGGGGTTNTAAAATNTAGGCCNG  
CC

CGCCTTTTGGGNCNGNTTAAATTNCAATNNGNGTTACAATTAAGNCCTTGGGTTTT  
TT

CCCCTTGGTTGGTTAGGAAAAAATNTTNGATTTTAATTACCCNGGCCTTTNCNAACNAA  
AAATTTTTCTTCCACCAACCCAAAACCAAATNAAACCTNAANTCCCCGNGGGGNAAGNC  
CNAATTAAAAAAANGATTTGGTTAAATAAGGCCNCTTGGGGGGGGGGT

Sequence 85

CCGCGGTGGCGGCCGAGGTACTTATATTACATTATGCTCAAATGCAAACACTTATGCTAA  
ATGTTATATTTGGGAACAAATTGTGTAAATATACTGATGACGTCAATGGATCATTACAA

T

TAATGTAGGTGCCGTGGGCAGGAAAGCTAACTTTANCTGAAAGCATCTNNAACGTGCTTA  
TTTTTCATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAGGAANGGCTTGGCCAAA  
TATAGTTCTTGTTGTCAAGAACAACAAATCCCATTTCACAACAGAACTAACGCTGGCAT  
GCCATTCTNTCCTNAGGTTCTTGCGTGCAGTGAGCGAGGCCNGGATGGCAGTCAAGGAT  
TCATTCCTTTG

Sequence 86

CCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCCATCCACCGAGGCCCAAC  
AGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTGACAGCTATCTCACCAGC  
TGACACTTTACCATATCTGGCAACAACTGTTTGCTCTCTTCTTGGATTTCAAATCCAC

C

AGCTTTTACCAGGGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATT  
CACCACAGCATCAACAGCATGTGTGGTGAGGTCATCTTTCACACTGATAACTCTATCCT  
AGGAGTCAGCATTTTTCTGAACACTTGACAGATTTGCTGTTGCCTTCCTGAACTGGAGA  
GACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCACACAGCTGACGCTCATT  
ATTTTTTAAATTTTAGAAGTCATTGGTGGTTAATGG

Sequence 87

CGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTGAA

Table 1

GAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACG  
GTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAAGGCCNGAAGAGGGACAGAT  
TCATCTTAGNGTTTGGGAAGTTGNGAGAACGAAGCNNTGACTCAACGTTGGTAGAAAAACN  
CNNCATCCCNTACCTATAATAAATACCAGGAAATTACGCCCTTGGGGTCGTNGGTTGGNTG  
ACATTGCCCTTATTAAATNCCCCAGCCTTACCTTTGTGAAAGGGCNCTTCCGGNCAGGGA  
AGAAATTNNACCTTTNTATACNCNCGGGGGAGGGGCATGAAGTGTTTTGTTGNGTTTGAA  
GCNCCAAAAAAATTTGGCCGCCCATTTTGGNCAACNTCCCANGCNCCTNNGGGGCCAANC  
AAAGAAGCCGAA

Sequence 88

GCCCANAAAACCGTAAAAAAGGCCGCCGTTGCTTGGCGTTTTTCCATTAGGGCTCCGCC  
CCCCTTGACCGAGCCATCACCAAAAAAATTCGACGCTCAAGGTCAAGAAGGGTTGGCGG  
AAAACCCCCGACCAGGGAACNTATTAANAGAATACCCAAGGGCCGTTTTTCCCCCCTGG  
GAAAGGCTTCCCCTCCGTGGCGCCTCTTCCTTGTTTTCCCCGAACCCNTGGCCGCCTT  
NACCCGGGNATTAACCCTTGTTCCCGCCCCTTTTTCTTCCCCCNTNCCGGGGGGA  
AA

Sequence 89

CGGGCAGGTACGGGTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGA  
TCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCT  
TAAGTCGATCCAACATCTGCAGNTGCTGGTTTTCCCCATTCTCCAGTTCACGTGTAA  
AT  
TCTCTACTTGTGATGCCAAATGTGCTTCTNCTTGTCTTTTCTTCCATGCACCGTTN  
A

CTTCCTTTAACT

Sequence 90

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAG  
GAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTA  
TCTGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTT  
A

AAAGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACA  
CAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTCATCTGACTTT  
G

CTGACATTNCCAGCAGCTGNATATTTAATTCACAGTTAGGGGCTGGACAACTACAGCCN  
TTGATCAGAATGGAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCAC  
AAAATTTTCATTTATTCAGT

Sequence 91

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAGGA  
AAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTAA  
A

AGTGCCTCCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACA  
AGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCCTTCATCTGACTTTGC  
T

GACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTACAGCCATT  
GATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTG

Sequence 92

CCCCANGAGGNCACCAAGCATCCCANCAACCCTTNNTCCGGGNGGTGNAANCCANGGCC  
GCCAGGCAANGGCACANCAAAANCCGGGCTGCGNCNNGAGCACNNGGCCANCCGAGAAAA  
CAAGGNCNCAACNACNGACNGGCNAAGAAGGGGCCNCCCCNGGCCAACNNACCANACA  
GNNNAGAGCAATCTTTTTTNGGGGGNGGAGCACCGGGACCACCACCCNGACAACAAAGGA  
CCCCGGCCGGGGN

Sequence 93

Table 1

CCCGCGGNGGCGGANATTGGGGGNGAAACCTNANANCANGGAANCTTTGCTTTNNGNCCA  
GATTANATTGGGGGNGCTTAAANCCCCAGCGGCNNNGACAGNTAATACACCTCACGTTT  
TTNGNAACTGGGGGGGGCAGNACCN

Sequence 94

TTTCCCGGGCAGGNACAGCTCCATGAGGTACCAAGCATCCCATCACCCNTTNCCGGCAG  
TTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTTGAGCACT  
GTGCAATTGAGTCAACAAGGTCTCACTACTGACTGGCTAAGATGGGGCCTGCCCTTGGC  
CAACTTCACCATACAGTTTAGAGCAATCTTTAAAGTGGNCTGAGCACCTGGACTATCATC  
TTGACTACAAAGTACCT

Sequence 95

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTATGATAACATTGCAGTCAAACATA  
TCTTGTGACAGGACAGTTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTT  
TAGGAACTAAAAGGAACGTAAGATCTGGGGTAGGGGATGAGCAGCTCCACACCCTGCTC  
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAACATGAGATGA  
GGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAATACTGTGTGTAACCTTTTGCA  
TATTTTCAGAAAAGAAACCAGTAAGGTGGGTTTCAAGTTGTGGGGCTCATCCTGACTTAGAAA  
ATTTTAAATAATTTAGCCCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATT  
TTTGCTTCTT

Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACCCACAAAA  
TGGCGGCAGCGCCGTGCGCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT

Sequence 97

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCTGAGGAGCCCCCTTCAGAGGGGGCGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAAGAAATCGAGAATTGGGCT

Sequence 98

GCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAGGACTTG  
GGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCCTTTTT

T

ATTCTCTGGCATTTCTCCTATATACTAGCCACTTTTAAACAATATTTGTGGGCTCTTTT  
CTTCTGCTTGCTGTAAATATTAGGGTCTCTGAGTCCTTACCTAGATTTTCTTCTCTTC

T

TACTCCTGGCCTTTCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG

A

TGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAA

CT

GTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATT  
AACAGGGAAAAAATATTAATAGGAAAAAATATAGATTTTATCTGATGGTAAT

Sequence 99

TGCGTTGCGCTCACTTGCCCGCTTTCAGTCGGGGAAACCTNGTCGTGGCCCAGCCTGCA  
TTANATTGAAATCGGCCAAACCGCCGCGGNGGAAGAGGGCCGGTTTTGCGGTAATTGGG  
GCGCCTCTTCCGCTTTCCTTCGCTTCACTGGACTCCGCCTTGCGGCTTCGGGTNCNGTT  
TCCGGNCTTGGCCNNGGCCGAAGGCCGGGTANTTCAGGCCTCCACNTCAAAAAGGGCGGG  
GTAAATNAACCGGGTTAATCCCACCANGAAATTCAGGGGGGGAATNAACCGCCAGGGAAA  
AANGAACCATTTGTTGAAGCCAAAAAAGNCCCANCCAAAA

Sequence 100

GAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
ATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTA  
TCCATTGAATTATTGTTTTAAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAAT

Table 1

TTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGNGTCT  
CAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGC  
A  
GCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCATTTGCTGATTCTGNGGGGGCT  
TCCCAATGGCATGNGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCA  
TNTGTGCCACTGGGAGTTGGGGAGGCGGCCTGCTGGGGTTCCTGGGT  
Sequence 101  
GGCCGAGCCCAATTCTTGATTTCTTCCATCCCAAACCTCTTAAACTCTTGACCTNTGC  
A  
ATTCANGTTGTGAACATGAACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCC  
C  
TCCTTGNGTACTGCTAAAACTTGNATGGNCTNTGAAGATACTGCTCTTNACNCCTCTGAA  
GGGGGCTTCTNAGGGGAAGGTACCTCGGCNCGCTCTAGAAGTAGTGAATCCCCCGNGC  
TGCAGGAAAT  
Sequence 102  
CGGGTCCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTNTATAAGATTAAAA  
AAAAATGAGGTGGTGTGAGTGGGGAGAGAAAAAGCAGGAAACAAAACCTGGTGAGAGG  
AAATGACCCCGCTGATGAAAGATCTTAAACACCAGGCTGAAGATTTTAGATTCTACCTAT  
TAGAAATGAATATTCACTGAGGTTTGATGAAGAGTCACTGAAGTGTACAAAGAAAAACA  
GATTTGAGAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTA  
GAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGA  
TGTGAGCAG  
Sequence 103  
ATTGAGCTCCCCGCGGTGGCGGCCGAGGTAATCCTTTCTTGTTTAAACGCCTCACCCTG  
ACCACGGAACGTCTTGATAGAGCCATCTAGTAATCTTAAGTCCTACCTCATCCAACCTT  
GTTTTGACTCCTGCAGTGAGCACAGCTGCCCTCACCTCCCCTCTCTATGCCCTCACCTT  
TGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTNAGACCACCAAANGCAAGGGTT  
N  
Sequence 104  
TGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCAACACGGGTGGTTGCATGCAT  
TCCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCCTTCTGATTGCACAT  
GG  
GGAGAAAATGCTGAACTAGTGGCCACAGATGTCTTTAATTCCAAAAACC  
Sequence 105  
AGCTNCCGCGGTGGCGGCCGCGGGCAGGTAATTTCTAGGTATATCATGTGCCCTAATG  
TGCTCCTAATATCATAAATGTTTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTT  
T  
GAAAAGTGCATAGGCTTGTAATCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACT  
A  
GAATAATCTTGTGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGAAACAATACTT  
T  
CTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGATTCAAGTT  
TT  
CTTCTTAGTTTCAAAATTTTAAAGGGAAACCAAAATGTTTCATGGNCCNNNCTNGCNGG  
NANGGGANTTTTCCNCNAAAAAANTCAACGGGGGGGGTTTTNCCNNTGGGGANN  
CCCAAAAAGCCGNNTNTNGGCCANGTTTTNNGNNNCTTTTGTNAGGGGNTTNGGGCC  
NCCCTGCTTTACCCCNTTTTTANATAACNNCCCCCTTTTGGNNTNGGGGNGGGGNNT  
TATATATNTTNTGGGGGGGG  
Sequence 106  
GTAGTGGGCAGCGATNAGGGCTGGGGCTCTTCTGAGTTGTGTCAAGGTGAGAGATTGT  
GAAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCCCATGAGGGGCCGTTCAATTGTCT

Table 1

CAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGATCCACACAAGTTAATTA  
TTCTGCTTTTGTTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTNTATGTGCAA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTCTTAATTTATGGGCACAT  
T  
TTAGTTCCTTCCACACAAATTTAAGGCCTTAACCTTNATTTTTCTACANTGGNNGG  
T  
TTTGAAGTAATATTCATACGGGCATGGGACCT

## Sequence 107

CAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGA  
AGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCTAGT  
A  
GTGCTATGTCATTTTGGTACTAAGGTAGGTGAATTTCCAAGTGTCTTGGAATAAG  
GA  
AACATCAAGAATAATGTAAAAGCCTCATATACAATAATGAATAATAAGAATAATGTGAA  
GGCTTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAATGACAGAGCAGCCAAG  
GTATTTAGGGATAGTGGCCAAAGTATTGTAATGATGGCTTATGGGAGTGTCAAGCTGGAT  
AAAAGAGTGAAAAATGGAAATAAAAACTAATGGGATTGGTTCNANTCCGAAATAGGCAG  
CNCNGCCCCAATGGCNCCCATNGCCCCGGTTTNAATTAGGGGG

## Sequence 108

NCCGGAATGGAATTCTACATCAAGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTG  
CAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTGCACTTAAGCACACTTAAAGGA  
TTCTATTCTTCATTCAAGTCCCCCAGAGAAATTGGCTCCTTATTTTCTTTACCTATTC  
C  
TAGACTTCCTTTTGTCTAGAGCCAGTTTTGCAAAGGGCACTTTTATCCATCTCAGTTAT  
T  
CCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAG  
NTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTATTTTTTTTTTTTAAATCTTCC  
TAAACGGTTATTTTCTAGCTGTACATTCCCAAAA

## Sequence 109

GCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTGGATTGCC  
TTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTT  
GAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACGA  
ACGCGTGGCCCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTAGCTGGCCACAGAGA  
TGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGTGTTTTATAGGTTTAAAGACCAGGTC  
TGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGCTTCTCCAGCTCT  
T  
TGTTTGTTTTAAATAAAGAGATTCAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCC  
CCAG

## Sequence 110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAG  
ATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTAGGCATGGAAA  
C  
AAAAATTTTTCTGGAAGAAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTNGAT  
TGTTTCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAAT  
ACATCTGGAGACACTTTATAAACTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT  
CCTGTAGCCTGCATAAACGATAAAGGGTTAAACATA

## Sequence 111

GCNCGCGGGATTGGCCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAGGGAGCGGGGT  
CCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTC  
TGGGCTCCCGC

## Sequence 112

Table 1

CGTGGCCGAGCGGTTTGCATCGCCGCTCGCGCAAGGCCATGAGGTTGGTCTGGGTGAAGA  
ACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTCACGCAGACGCT  
CCAGCAATTCGCGCGATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCC  
AGTCAGGCAAGGTCTCGCGCACTTGACGCCGGTGATGCCGCGCACCTGGTCGTTGAGGC  
TTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTNTTGCCAGCGCTTTTCGTGGCGGATTGCCGGGGGCGTTGCTGTGGGCCAGTTG  
TTCACCAGCACCAGTTTTGGGCTTG

Sequence 113

GCGGCCAGCCAGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATGTGAGGGGG  
CGACTGCCCTGACATGGTGTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGG  
AAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTNCTGGACTGCAAAGTCATTT  
GTNAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTGCTGGC  
T

Sequence 114

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGTGAGATTA  
CTGTGTATGGCCAATCCAGATAAATAAGAGGATCAAGTCTTTATGAAAAGGAAAGAAAA  
TTTGAATGCACATCTCTGTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCT  
G  
TTAGGTTTGTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTTGA  
CAAAGAAATTGGCTGCATCCAATAGAATCCCAGGGCCGGTCTGTGGTGGCTCATGCCTGTA  
ATCCCAACACTTTG

Sequence 115

GGCCGGAATCGTTGCACCAGACNAGGCCCCCGAGGGCCAGCTACTCGAAGAACAAGCCAA  
TGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGAT  
CTCACTGGGGTTAGTTGGTCTGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTT  
AACTCTATCAGGGTACCT

Sequence 116

GGGGCTCGTGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCACGTTGCGCCCGC  
GGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGG  
TCACTTCGGAACGCGCGCGCGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACAT  
CCAGCAGCGGCACGCCCGCTACGACGCGGTCTTGCCCGATCAGCGGTGTCAGGCGAATCG  
GCATACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAAGGTCTTCGA  
CCATCGGGCTGTAGCCGAGCAGGGTTTCGTTTGGGGCGCCGGGCTTCGGCGGGGGCCGGG  
GTTTGGTGTGCGGGGNCCCCGTGGGCCGCGT

Sequence 117

GATGATGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCCTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCCT  
A

AATTTGTCTTCTACCTCAGATCTAAACCATTGATAACATTAGGGCAATATCATGGCAA  
T

CGTGGCCCAGTAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGG  
AAAATTTTTCTCATAGAAAACTGTAGGAAAAGCCATGGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAACAACAGTAGGGAGCGTNGGATTAGGAATGTCCTTGGTGCCTGAAA  
CAGGCAGACCAATCCTGAAACATCTTCTCTGGGGACCGTAAGGCATGGAAAAATTTCT  
ATTACACTTANGGAGGGCTTCTAGGGAAACAGGAAACCGACCAAAATGGGAATGGGGCC  
TTAATTCATTTTTT

T

Sequence 118

CTCCCGCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAA

Table I

TGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATT  
CTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCT  
CTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAAC  
TGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACT  
CTGAAAGATCAGACAATAGATCAGAAGCTTTGGAGCGTTCTGACCATGAGGGACAATGAC  
CCCTCAAGATGTTAGATCAGCACAGGTGGGATCAGAAAGCCCCTAATG

Sequence 119

GGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCCTGGCCAGTGAAAGGGT  
CTAATATAAAACACACCGAGGCTGAAATAGCCCGCTGCTTGAGACCTTCCTCAAGCTC  
AATGACTACCTGCAGATAGAAACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGG  
CTAATGAGNTGCTGTGCCATTGTGTATGTCTGCAGATTTCCCAGGGTTGGGATGGGTTC  
ATCCTACAACGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATAACAACGTAACCTT  
GCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCTTATTTTGGCAT  
GGGGA

Sequence 120

GTGGCGGCCGAGGTACCCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTCGTG  
CTAAGATGCCCGTTACGGAAGATCGCTGTCTTTCAAGAGCTATGGGCATTGTTTACA

Sequence 121

GCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTTTAACA  
GTTCCACCTTTTCAGCTGCCTGGGCATTGATTGCTCACCTACCACTATGACTAGATATGA  
TTCCATGTGCTTTTGACTAGATTCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGT  
A  
ATAGTTACTGCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCATTAGTAGTCA  
GCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTGTTTTACAATTCAGCTA  
T  
TCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTTCTTCTGTAGTTGCTCTCTC  
T  
CCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTCAAGTAAAATTGTTTT  
ATGTTTTGTTTTATCTACCCCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTA  
C  
TTTTCCCAAATCATAAAGGTTTTGGG

Sequence 122

CCCGCGGTGGCGGCCCGAGGTACACACTGGGATCTCCTTCACTCATTTTTTAACCCCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGATTAGGTGTTTCATCTTGCAGAAATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCACTGGCTTTTA  
T  
TATTAAATTGGAATGTTGGCTGGAAACAATTTTAACCC

Sequence 123

GCGGTGGCGGCCCGCCCGGCGAGGTACGCGGGTGTGCAACTGCAAACAGTAACCTGCTAT  
GGCCAATTGTGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTGG  
GCTCAAGCAATCTTCCCGCCCCACTTCCGAAGCCCTAGGATTACGGGAGTGAGCCACCG  
CAGCCAGCCAGAAAAACGTTTCAAATATTGAAAAACCTTACTTTTTTCAATGAGCATT  
T  
TGTCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAGGT  
CAGAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGGTGGTGGGGGGGAG  
GGACATTTTCCAGCA

Sequence 124

GCTCACCGCGGTGGCGGCCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCCG  
TGCGACAAACACCCACAAAATGGCGGCAGCGCCGTGCCCTAGAATCCCCCGAGTCGCC  
TCTCCCCGCGTACCT

Table 1

## Sequence 125

ATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGATTCTGGGTGTGC  
AGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCATTCTTGAGAGGGAGACAGCAAC  
CAATAAACAATTACAAAAAGTATGTAACATAAACAAGTGGGAGAAGGGAGTGGGAT  
TACACAGCAGAAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAATA  
AACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAGAACATGATCAT  
CTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTGC  
AATGGAAACGTTAAAAATAGCCCAGATCACGTAGAGCTCTTAGCCTTTTGGTAGAAAAA

## Sequence 126

GCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGA  
CAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGC  
TTTACATCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGA  
ACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTG  
CTTGGCAAAGCATNCAGAGAAGCTGCTACTGCTCTTTCTGGGGCCGTGTGATGGAGANGT  
TAAAAATTTGGAATCTAACTCAAGNGGNAATGNATTCCGNACCCTNCGGNCGNNTNTTANA  
ACTAGGGGGATCCCCCGGGGCTGNAGGGAATTCGANTAAAGCTTNNTTANTCCCCGCCAC  
CNCNNGGGGGGGNCCCCCNCCCATTTTTTTTTTTNTTANGGGGGGNTAATNGCCCCC  
GGGGGAAAAAANNANAAAAATTTTTTTNTNGGAAAAATTTCCCCCAAANTNTNCA  
NNAAAAAAAAGGGG

## Sequence 127

GTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAAT  
AAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAGCTCTCAACCTGTAAAGAA  
TTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGTGNCAGAAGGTTAGCAGATATAGT  
GTAGAGCATACAGATATACTATAGTTCATAACACTGGTGGCTTAGCTGTAAATCACAA  
AATAGCACTGGAATTATCTAGTGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATC  
TTGTCTTAACTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGATT  
GAACCCAGNCCTCTTTAGACTAACATATTCTTGCCATCACCNCCAATATTACAATAAAA  
ATCAAGACCCATGAAGGAGCATACCTTTTTCTGNAAGNAAATATTGNTTACCTCAGCTCT  
ATTGGTATTTGATGCAAAACACCCACATGCAATTTGGATCAATAAGACATGGGAAGGGGC  
CAAAATGNNACTTCATGCTTAAGGAAAAAAGGAGNGGGAAGGAGGNCACCAAGCNGG  
TNCNGNAATGGGTNAACTTGGGGCATTATANGGGGGNGCTTTAAATACCATTTT

## Sequence 128

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACG  
ACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAG  
CCTGGTAGCTCGGTACCT

## Sequence 129

CGCGGTGGCGGCCGCCCGGGCAGGTACAGTCAACGGCCGAAACCACTGAGCTTTTCCCT  
CTGCCTGGCACATATCCACTGCCCTGCCTTCTCAGCTGATGAACTCTTCATATGCCTC  
CTTTTGGGTGTCAGTGGAATGTCACCTCTTCTAGAAGCTTCTCTGGCTCTCCAGC  
CT  
GGCCCAGGGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCA  
TAGTATATGGAATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAG  
GCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTG  
GGCCAGAGGTAGGTGCTTAATAAAAAATTGTTGAGGCCGGGGCGTGGTGGCTCACGGCT  
ATAATCCCAGCACT

T

## Sequence 130

GCCCAAGGGGGGGCCAACCCACATTATTTGNNTGGGGCNNNCTGCCNNTTTTNAANNA

Table 1

GAAAANCCTTNNCCCCCTTTTTATNAAATAAACCCCCCENNNGGGGNGNGGGGGGGGGG  
GGGNGTNATANNNGNANNNNGTCTCNTNTTTTNTCCTTTAATTCCNANAAATAAACTT  
GA  
CNTTCGCTTGNGCTTNGGNNGGTTTCGGGCTGCGGCGAAGCCGGTATTCAANCTCACTCA  
AAGGGCGGNTAATACCN

## Sequence 131

CCGCGGTGGCGGCCGCCGGGCAGGTACCTATCTGCAGAACGGTCATTAGCAGTTTTTCC  
AAACAAGCGACTTTTAGCAAATTAACCGTTAATTTTAATGAGATTCAAAAGTTAATAGC  
C  
ATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGA  
G  
AAACTAATTTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGT  
C  
TGAGACCCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTT  
A  
GGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTGGAGTGAGTTATTATTTTC  
CTGGTAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACC  
TAAAGTCACCACTTGGTGATTTCTGGTCCCAATAACCCCTATAAGCCTCTCCCTTGGAGGT  
GACCTCTGCCCTGTGAAGGGTTGGGCTC

## Sequence 132

CGCGGTGGCGGCCGAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGAAG  
ATGTTCTGGGCGGCCAGCACAATCGCCGCCTTGCCGACGATGACATTGTTGGCCTTCAGC  
CCGTCAATATCGCCCTTGATGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATG  
GCGGCGTTCGCCCTTGCCGGTCGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCG  
CTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCCTTCTTGCTCCTGGGTGACATCACCG  
CGCAGCCGCGTGCCGCCGGCAATGAACTGGATATTGCTCAGGCGTTTTTCGTCCTTGTGC  
AGGGCAAGTTCCGTGGCAAGATCGGCCCGCACGCCGTGAGGAACGCCAGACCG

## Sequence 133

CGGTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGTCTTGATA  
TAATAGGTTACAAAGCAAAATTGAGATGATTTTTAAATGCCATGCAGTTATTTTTTCT  
G  
AATAACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAAGTATTAACCTTTAAATA  
CATAAACTCAATAGAAATAATTTAACTGCCTTCTCTTACAAGAGGCAATCAGAAGGCAG  
GACTATAGTTTTCTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCA  
T  
AGAAACAATTCCATAGTTTTAATTTT

## Sequence 134

TNGACTCCCGCGGTGGCGGCCGCAAGTGTGGGATTACAGGCATGAGCCACCACGACCG  
GCCCTGGGATTCTATTGGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTT  
AT  
TTAATCAGGTGTTTCCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAG  
TGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGA  
C  
TTGATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGACAGTTGC  
T  
TCCCGCGTACCT

## Sequence 135

TTGAGTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTAGGGTCT  
TCCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGAGTGAACACCCGCTTGT  
TTAACCACCAGCAGGGGGATTCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACC  
TCTGCATTTTCCCCCAGAAAGGCGAGCATGTTACTTGTCATCTTGGGATCCGAATGACAA

Table 1

ACTCCACCAGATGTAAAATCACTTTCTAAACAACATTTGACAGACTGCTCCACAAGTCA  
TCATTCTTAGCATTCTATAGCTGAACTTCTTTAAGTACCTGCC

CG

Sequence 136

AGCTNCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCANGGGCAGTTTCATGCCACGG  
GAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCA  
GGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAGACCCCGCGTCCTGCCCG

Sequence 137

GCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCCAATGGTGGTGCTC  
TTGTCTTCATGCTTACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAG

AT

TTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTACTAT

G

CTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCAGACTTCTTGACTACTTTGC

TT

TAATTTCCCCAACACTCCAGTGAAAAATGGGAAATCTGGGCAAGAAAGATTTTGAACC

ACCCCCCATTTTAAATTTTTNACCTCAGGGGAANNAGGGACNATCCTGGNTNGGGGNCC

CNCACCGNGGGGGNTCCNTTTTGGGGGGAAAAANATNTTTNTGTGGNNCNAANAAA

AAAAAAAAANNGGGGNNTTNTTTTCCCNCCNTTTTTTTNTTNTANAAAAAAA

C

CCNCTTTTTTTNAAAAAATTTT

Sequence 138

TNCCGCGGTGGCGGCCGAGGTACTCGGGAGGCTGAGACAGGACAATTGCTTGAACCTAGG

AGGTAGAGGTTGCAGTAAGCCAAGATCGTGCTACTACACTCCAGCCTGGGTGACAGAGTA

AGACTCCATCTCAAAAAAAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAG

TTTGCATACATGCTAAACAGAGAAATGTCTCAAAATTCAGTTACTAAAAATTACTGAT

A

TCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAGGAGAATTTTAAT

GCTATATAAGCATAACTGATAACTGCTATTACAAATAAATATTCCACAAATTTGGAAG

T

TATTAGAGGAAGAATTTTTTTTCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCAT

A

GTGAAAATTACATGGAGGAAAGAAAATAGGGAAAATAAGTCACAGAAAAAGAAAA

Sequence 139

TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCT

TTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCT

C

TTCTCTGCATTCTCTTTCCCTCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATAC

T

GCTCTTACCCCTCTGAAGGGGGCTCCTCANGGGAAGGTACC

T

Sequence 140

TCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTT

TCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC

GGTACC

T

Sequence 141

TNCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCNTCCCAAACCTTTAAACTC

TT

GACCTCTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAGCCCCCTTCTCTGCAT

TCTCTTTCCCCCTTGTATGCTAAACTTGGATGGCCTCTGAAGATACTGCTCTTCA

CC

Table 1

CCTCTGAAGGGGGCTCCTCAGGGGAAGGTACCT

Sequence 142

NGGTTGCGCTCACTGCCCCGNTTTTTCCAAGTCAGGGAAAACCTTNGCNGGCCCNNTTTNG  
TTTTAANANAANNTGNGCCNCCCCCNCGGGGGGGGGGGNGNNTTTTGNATNTNTTGGGG  
CCNNTTTTTCCCTTTTCCNNNAAAAAAAAAAANCNCNNGGCCCCCNGGNNTTTTGGGG  
GGGNGGGGGGGG

Sequence 143

NNGACCTAACCTNACATTTAAATNGCGGTGGCGGCTTAAGTGGCCCGCTTTTCCAAGTCC  
GGGAAAACCCNTTCCNNGCCCAANCTTTGTANTAAANGAAATCCGGCCCAACCNCNC  
GGGGNGAAGGGNGGGTTTTTNGCNATTATTGGGGCNCCTTTTCCCGTTTNTTGNNTNN  
NNANACCCCTTNNGCCNCNGGGGGGATTGGGGGGGGGGGGGGGG

Sequence 144

GAGTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTTGGAACGTGACACGGTAT  
TAAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCACTGGGTACTTTTCGATT  
ACCCAAACCAGGCACCTTCCTAAACTCCCCACTTCTTTACTTCTGCGGTCTCCTTTCTT  
T  
TATCCCCCGCGTACCTGCCC  
G

Sequence 145

ACTCCCCGCGGTGGCGGCCGAGGTACCGAGCTCCNGGCTGTGGAATGAGACCGTGGAGCT  
TTTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTG  
TTTACA

Sequence 146

CTCCCCGCGGTGGCGGCCGTTATGCTTAGCCNGTTTATTCTTTATTTTTTACTGGAG  
TC  
ATTGCCAGTGATGGAACGGTGTTTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAG  
CATTAGGTGGTATTTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGA  
AGTTATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAA  
T  
TCATTGTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTC  
CACCACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCCTGGTCCCCAAGTTAACAGG  
GGATATACTTCTGCATTTTCTCTGNTCTTTCTTGCC

Sequence 147

TGAGTCCCCGCGGTGGCGGCCGCCCGGCGCAGGTACCCAAGGTGGGCATTTTTTAAAAA  
ACCCATGGAAATAAATGCTACTTCTTGTTAGTGTTGTTGAAAATAACAAAGAAAATGC  
AAACAAAACAAAACCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGC  
CTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCA  
ATTCTTTAAACTATCTGGAATTAGGTCAAATTAATCTAATTTTTTCTGATTTAATTAT  
GGATTACCGTAATCCAATAGTTGGCAACATTATAAACCCCTAACTTTACCTCATTGGTT  
T  
GGCTATACCAAGGTCTCATGGACTCTTGGACATAACCACCATTCCTTCCNCCAACACCC  
CGGNGTACTTCAGAGTAAACCCGGGAGCCTTCATGATAACCATGAAGGCCCGGAAGCTT  
CTGGCTTCCAAGGCTTCTNTNGGCCTNACCTTCCGGTGGTTCTTTTCT

Sequence 148

GGGTGGCGGCCGAGGTACCTNTGTGCGCGGTGGNCGAAAAGCACCTGGGTGGGTGCAG  
ACTGCGGAGCNGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACCT  
TAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTACTCTG  
AGCCAAGGAAGTGCTGTTCTTGCTGAGTTTNNAGGGGCCCTTCAGCTNGNGGGAATCC  
CNAAGA

Sequence 149

Table 1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGAGGGGTGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCT

Sequence 150

CNCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATTGCTCTTGAAACGACAGCGATGTTT  
CCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCG  
GTACCTCGGCCGCTCTAGAACTAGT

Sequence 151

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTGTTT  
T  
TTTCTGTCCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTAAAG  
AAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCTCCTGTCTTTGAATTCCTATTTC  
CTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGCTCTAG  
TCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGTTTTGTAAAAGCTCA  
A  
GGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTGGGCATTACCCAAATCTGTCA  
CACATTGAGCAATGAAATTCAGGGAATTGGGACAATGACCTCTTGGGCATATGAAAGAAT  
TAAAAGAGGGCTAGGGCTTAGGGAGGGGGGATCTAATCGGGAGGGGATGTTCTGTCCCN  
GCCCTTCCTTCCTTCT

Sequence 152

TNCCGCGGTGGCGGCCGAGGTACNCCTAAAAAGTACTGCAGCAGAGAAGAAAACATTGG  
ACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGCGGAGTTTG  
CTTCACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTGATTCTCCTGAGAATGATA  
TTCCTATGGAGATCACCACGGCAGAACCACAGGTTTCCGAGGCAGTATATGACTGTGTTA  
TTTGTGGACAGAGTGGCCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGCCC  
G

Sequence 153

GCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATTTT  
GGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
ACATATCATCTGTCCCTTTGGATTTTACTTCCAGGACGCGTGTGTCCTCCAGCGTGTG  
TT  
GCCTTATGGTGCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGAGAG  
AATTTGGAATGCAGATAATTTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACA  
C  
TACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCT  
A  
TGCAAACTATTACTTTGGTTTTTAGGAGTTTGATCAGATGAAGAAGTNATGGTATCACA  
T

ATATATGTAAGAAGGCCAACCCATCATTTATTTTTGNAAGTGNTTTTTATTAAAAACC

Sequence 154

CNCCGCGGTGGCGTNCGGCCCCCGCCTTTTCTGCGGCTTTCAGCTGCGCGTTTCAGGTG  
TCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGGCTGATG  
CCTGCGCCCCGACGCTTCGTCGCTCATGCGGAAATGCTGTGGTGCTGGCCGGGTGGAT  
CACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAAT  
GAACTTCTTGCCCTGCTCGCGTTGCCCTTGAGGTCAAAGCT

Sequence 155

CGCGGTGGCGGCCGCCCGGGCNGGTTATAAAAACGAACATGTATAAACGCTTACGCAAACC  
CTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAATCGCTGGAGACTAGAAAGTATG  
A  
AATGGCAGTCTACCTGGGCAACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGC

Table 1

TCCCCTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAG  
AACTGGAAAATTATTTGGAAAAGTTTATTAAC

Sequence 156

CTGGCGGCCCGCCGNNCTGGTNCTTNCATCTNGGCTNCCTATANGCTNTCTTTTTTACAG  
ACGGCCATGAAATGCAATCCAGCTGAAGTATTATCATCTTGTAGCATTTCAAAGGAACC  
GTCGAAGTCATCCAAAGGATGGGAACCAATGTTCTTGTGTTCCCTTGGGTTCTTA  
AT  
GATTTCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTT  
T  
TCTCCTCAGTTTCTCACATCTTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCCTTGCCCT  
TTTTTACTGGCCTTTCCTTGTCTTACTTCAGGTGGTTCTATTTTGACCTTTAAGAAGG  
T  
TGAAGGGTGGTNCAAGCATCACCTTGGTTCNAATAAAATTAATGGTGTTAGGTTTCTGGT  
GGCCTTNGTTTAAACGCAAATGGGGGTTTTTNANGGGGGGANAAGGTTGGGGT

Sequence 157

CCGCGGTGGCGGCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTGCTGGGCCGCTGCGAC  
AAACACCCACAAAATGGCGGCATGCGCGCTCGCCCTAGAATCCCCCGAGTCGCCTCTCC  
CCGCGTACCT

Sequence 158

CCCAGGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCA  
CGGCTTTGACCCAGGCTGGGGGTGCACAGGATCTCACTGGNGNTAGTTGGTCGGATGGGA  
AAGCCCCATGGGTCCACCAGGATGAGGTGTTAACTNTATCAGGGNACCTTGCCCGCTCT  
AGAA

Sequence 159

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCCATGGAAT  
TTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGG  
AGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACA  
CCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCAT  
ATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGTGTAAGCAGGATCA  
A  
TAGTCCCACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGC  
TCGACACACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACTTCTGGACCCAGAAAAGC  
CAGGTAACAGGTTTGAACAAACAAGAAGGCC

Sequence 160

TGGCGGCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAA  
CATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGA  
CCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTT  
TGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGTGTAAGCAGGATCAATAGTC  
CC  
ACAGATCGTTCTCAACATTGACTTGGCCCCACGATCCTGGATATTGCTGGGCTCGACAC  
ACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTGAACAAACAAGAAGGCCAAA

Sequence 161

CGAGGTACCATCCTATTAATACTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGAT  
G  
ATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGG  
CTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAGTATCTATA  
T  
ACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAG

Table I

G  
TCCCAACACAGGATATAACCCATTGGGCAGTGCATTGATGTGGGGGATGTGCAACTGANT  
ATNCCGGTCACCCGCCAATCACAAGTTTGCTGGTGTGATGCTGGAAACGGTGGCCTCCA  
ACGCCGCTCCCCCTCCCGGAA  
Sequence 162  
GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTCAATTTGGGCAAGT  
GATTTGACTGTTGGATATTCTTGCTGGATTCTCTTCTTACGTAGAAAATTTGCCTCTT  
T  
CCACTAGGAATGTATCACGCCAAATTTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCT  
G  
GCTTTTCTGGGTCCAGAAGTTTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGCA  
GCCCAGCAATATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGACCACGAATAAAAAAGGCACACGAATATCAAAGTCAT  
ATGGCATGGATTTCCCCTTGACCAGTCCAACTGCCCAATATGGTAACCATGGTCGGCGG  
TGTA  
Sequence 163  
GGGGCCNCGCGTCCGGGTGGGTCTATGTAGTTCTAATTTGCATTTCTCTAATGACTAACG  
ATGTTAAACATATTTTATGTACTTGTTCATGTACTTGTGATATGTCTATTCAATTCC  
TTTACCATTTTTATGGAGCTGTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATG  
CTGCATACCAGGCCTTTGTTATATACATGCTTTGCAATGTACATTGTCTTAAATCTGT  
G  
GCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTTAAGCAGTTTTTAATTTGATGAAGT  
G  
TAACTTATTCATTTTTTATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTT  
CTCACAAATCACAAACATTATCCTATGTTTTCTTCAAAAATTATATGGTTTTATGTATT  
TTCAATCTCAAAATATTCTCTAATTTTTTTGCTGATTTATTTCTAAAGAAATTTGAGGGA  
TTTGCTATAATGG  
Sequence 164  
CCCCGCGGTGGCGGCCGCCCGGGGCAGGTTATTTAATTTCTTAGTGTCTCAATTTCTCC  
TCTATAAAACAGAGATAATAGTATTTAGCCCAGAGGGTTGTGGTGAAGTGTGAATCATT  
CTCCATGTAAACACATAGGACAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTA  
CTTGAGAGGCTGAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCG  
AGATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTCAAAAAAAAA  
AAAAAAAAAAAAAAAAAGTACCT  
Sequence 165  
NCCTGGCATCAGCNATTAGNAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAA  
TTATTCCTGCAAGCCAATTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGG  
GTGAGGAAAGAAGATGTCTGAATCCAAGAATCCGAAGGGCCGTCAAGAAATTTACCTGA  
AAGGCAGGTTAGGCAAGGGAAGGGGTCTAAAAAGATCTCCCTTAAAAACCAGGAGGGG  
GGAAGCCAAAAATCCGATGCCAAGTGCTTTCCCAAAGGGGATTGGGGACCACCACCAAGA  
GGGCCTGGCCCTTCTTCCCATCATTCCCTTACCATTGGGGAGGTAATTATTGTCAA  
GGCCATTAAATTTGGTTTCTTTAAGTTTTTGGCAGGTTTACCGCCTTAAAAAGGGTG  
GA  
CCCAAATGGATTGGGTCCACCCAAAATCNAGGCTTGCTTACTTACTTCCCTGGTAAGGGA  
A  
Sequence 166  
GTGGCGNCCGTNCGGNCAGGTACTTGCTCAGCCTTTCCAGGCCCTTNTGATGAGCTCTCT  
AATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGA  
AGAAAGGTGGACAGCCTGTTCTCTCATGTGAGCCTAGGGCTGGGAACAGTTTGTGAG  
GACTTATCTGTTGTACCT

Table 1

## Sequence 167

GCNGGCCGCCCCGGGCAGGTACGCGGGAATGGGCACNNTGNAGCGCAAGTAGGTCTACAAG  
ACGCTACTTCCCCTATCATAGAAAGAGCTTATCACCTTTCATGATCACGCCCTNNGGNATC  
ATTNTCCTTATCTGCTTCCTAGTCCTGGTATGCCCTTTTCTNAACCACTCACAAACCA  
A  
AAACTTAATAAATAACTTAACAATCCTNAGAACGCCTCAAGGNAAANTAAGAAAACCCG  
TCNTGAAACTTATTCTGCCCGCCCATCATCCCTTAGNTCCCTCAATTCTGGNCCCT  
CN  
CCAAANCCCCCTACCGCCAATCCCTTTTACAATAAAACAGGACCGAAGGGTCCAAACNGAA  
TCCCCTCCCCNTTACCCATTCAAAAAATCAAAATTNNGGCCACCCAAATTGGANNACCTT  
GAAACCCCTAACC GAAGTTACCTTCGGGCGCGCTTCTTAAGAACTAAGGNGGGAATCC  
CCCCNNGGGCCTGGNAANGGAAATTCGGATAATCAAAGCCTTAATTCCGAATANCCCCG  
GTCCGAACCTTCGGAGGGGGGGGGGGCCCCCGGGGTACCCCCANGCTTTTTGGGTTTCC  
CTTTTA

A

## Sequence 168

ATNTTCAGGAGACGCTCNGTAGCCCTCGCGCTNTATCCTNCGGNACAGTTCTGCGGAAGA  
AGTGCTCACGCCCTTCCAGAGCCACATCATCGCGGNCGAAAGNGAAGCCCAGAGAGAGGT  
AGGTGTAGGAGGCCTGCAGGTACCTCGGCCGCTCTAAGAACAANGNGGATCCCCCGGGC  
TGCAAGGGAATTCCCTTANCAAAAGCANTANTNAAACCCGTCCGNCCNNNCAGGGGGGGGG  
CCCCGNTACCCNAANCTTTGNNNCCCNATAGAGAAGGGNGAAAAAATNANGCCCNCC  
TNGGGGCAGNAAAAAATGGGGACAATAAAGCTNTTNNNCNNGGGGNTAAAAAANTTGT  
TAAATCCCCCNACCANNAATTTTNCNAAACAAAAAATAAAAAANCNCCGNGGANNGAN  
AAAAAAAANNGGNATAAAACACCCCNNGGGGNGGGTCCCCNCAAAGNNGGGGGGGGGGACCN  
CCNCCCNAAACAATTAATGTGGGGNNGGGNNGGANANANAATNGCCCTNNTTTTTNTANNGNG  
ANNAAAAANNCTTGGNGCNGNCCCNACTTCTANNTAAAAAAAANACCCCCCNCCCN  
CCCGGGGGNAGNGNGGNNNGNTTNACTTTANNNGGGCNANNTTTTTCCNCCTTATNNA  
AAAAAAAATAACNNGGCACNNGGGAATTTNNGGGGGGGGGG

## Sequence 169

TTTTGAAGCCCNCTTNCCGCGGNGGCGGCCGCCCGGGCAGGTACTTCCACTATTATTGAA  
TGTATTCTGTATTATAATTGTATATTGATTGCCTATCTCCCCTCAACTGCATTATACAT  
TTTCATGGGTGAGCCAATGTCTTTTCACTCTATTTCAAGTGCCCTGCACATTTTCTGGC  
A  
CATAGTAAGCATCCCATGAGTATCTGATGAATAAATGTATTTCAAATTCAGGTTCACT  
A  
TCCTTAATCTGAAAATACAAAATCCGAAATGCCATAAAATTCAAAGCTTTTTGAGGACTG  
ACCTCGTGCTCAAAGGAAATGCTCATTGGAGCATTTTGGACTTCAGATTTTCAAGATTAGG  
GATATTCAACCCGTAAGAATAGTGCCAATATTCCAAAATTCAAAAAGTCTGAAATCCAA  
AACACTTCTGGTCCCAGGTATTTTGGATAAGGGATACTCAACCTGTACCGTAAAAATACAT  
GCATACTTTCGATAGCACATGTGAAGGTATCTCTCTAAAATTGACCTCATTGGTTTCGT  
T  
CTCAAGCAAACCTGACCTGGGGCCACTCAACATGGCTTTTATCGNGCCTGATGTTAATGCA  
TGTCCTTTTTTACAATA

## Sequence 170

AAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTA  
C  
CATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCA  
GGGAGAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTACCC  
ATCATCCTCACCAACTTTTGGGCCATAATTCACCCAACCTTTGGTGGAGCCTGAAAAA  
ATCTGGGCAGAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAACACAGAGTGCCCTTA  
TGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAA

Table 1

ACAATGAGGAACATTTTCATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACACTAAG  
TTATCCCTTTTGTGCTAAAATGGACAGTATTGGCAAATGATCCACAACCTCTTATTCT  
C

TGGCTCTATATTGCTTTGGAAACACTT

Sequence 171

GGCGGCCGCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAATGGCGTCGTGGC  
ATTGAGGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCG  
GAGAGAGAGGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGT  
TGGGGGGGAGCCCGAGGTTCCGGGAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTG  
TACCTCGGCCGTCGAGCGGCCGCCGGGCGAGGTACAACTTTTATACAACCTCAGGAGATTA  
AAAAAAAATCTCCACAAGAAGAAGCAACTCANCAGGCCCTGGCATTAAACATTTCCAG  
AATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATATTTAAGTTACACCAAGATT  
TCCCTCCAATATGTGCCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGG  
CA

TGAATTTTTTGGCAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAANT

Sequence 172

CGGGTACANATTTAAGGTAGATGGAGTGAGGGTAAGGATAGCTACAGCTGTGTGGGGCTG  
AAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGGCTCTGTTTTCATNGTGACACACTGA  
GTTAATAAAGCACTTACTGAGGGAGCCAGAGCCCAAACCTCTAAATGTGCTGTAGAAAAAG  
GGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGC  
CATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTATCATGG  
TGATTAATAAATNCAAACAAGCTGAATGATAAGNACCCAGGATGGAATACAGTCTGAG  
AAAGGCCTGGGCAAAG

Sequence 173

GGGGCCGGGCCCCCGTAGGGGTTACCCNCCGNGGGTTATTAAGGGGTTGGNAAAAAAAAA  
AAACCACCTGGCNCANTTTCCAACCCAAANGGTNCAAANGGGGAAACCCCCCAANGGGGG  
CCCAGGCCTTGGGGAAAAGTTGTTTGGGGNAAGCCCAACCAACCAATTGGNCTTGGTNGG  
GGAGGCCAACCCACCAATGGNCCTTGTTGNGTAAGAAATNTGGGCNAGGGNNGGTTGGTTC  
CTTGNAAGGGTATTTGGGTGGTTNCGTAAANTTTGGGGAAAAGGAAATTTTTTTAAGG  
GTTATTTGTTAAGAAAGCCAAAGGGTTTTGAAAAAAATGGGGAATTTGGGAAGAACCTG  
GCCAATTGGGGTTGGGGCCCATTAANAANAATTGGGGAAGGNAAAAATTTTGGCCCTTG  
GGTNAAGNCCANTCCTTAAGGTTCTTAACCTTTTGGAAAANGGGGAAAAGGTTGGGGGA  
AGGNAACCCANTTAAAGGGGGGNANGGGANGGACCCAAAAAACCAGGGGGGTNT  
TTTGGTTNGNCCCCCAATTAAGGGGTTAATTTTTTTTTTTTCCAAAAAAG  
G

GAACCCANCCCCCAAAAAGGGAAATTGGGTTGGGGGTTNAAAAAATTGGGGAAAAA  
AAAAAATTTTTAANTTTTTAAGGGTTTTCCAAACCTTTTTCCCCCTTGGCCTTGGG  
C

CCCAANTTGGGAAAAAANCCTTTTTTTGGGCCCCNTTTTTAAAAAGGNAAAAAGGGGGG  
TNGGGCCCTTGGGGGNAANTTTTTNCCCCCAAAAAGGGGGGTTTTTTTGGGTTNAAAAA  
AAGGGGGGNCCAANTTTCNTTCCGGGGGTTTAAAAAAGGGAACCTTGGGCTTTTTTT  
TT

Sequence 174

GGCGAGCGGCCGCCGGGCAGGTACCCTAGGGTGTTGTTTAAAGGACTTGATAACCAGCTT  
GAAGAGGTTCTACTGACCAGAAATGGAATGAAATTTAAGCATCAATAAGGGTAATAACT  
GCAAGAGACTGACATCCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTT  
T  
CATTATTCTGAAAACAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTT  
CTCAATGAAATATATCNTAAGAGAACCGAATAGTTAACATAGAGACATGGCCGGGCAAGG  
TGGCTCTGCCTGTAATCCCAACACTTTGGGAGGCCCGAGGTGGGAAGATTGCTTGAGCC

Table I

CAAGAGTTCTAGACCAGNCTGGACAACATGGTGAAACCCTGTGCCTACAAAAAAAAAAAA  
AACAAAAAAAAAGGTCCCC

Sequence 175

CAGGACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAA  
GAAGGGAATGAACACAGAGAACTTTCAGCCAGATTCTGATNGTCACCTGAACAAGAAA  
AGTCAAACCTGGAGTGAAACCATGCAAATGCAGCGTGTGTGGGAAAGTCTTCCTCCCGTCA  
TTCATTCTGGACAGGCACATGAGAGCTTCATGCTGGACACAAACCATCTGAGTGTTGGT  
GGGGAATGGANAGAGGACNCCCCCGNAAACAGAAACCAACCATGGGGAAAAGCCTTCAT  
TCCCCCAGTAGTNGGTGCACCGGCTCACCAGTTAACNACCAACTTNGAAAGGAGACCTT  
TATGAATTGCAAGGGTGGTGCGGGGAAAGCCCTTTAAATTCTCCCA

Sequence 176

NCNGGNCAGGACGCGGGGGCCGNGAAGAGCTTTGCATTGTGGGAAGTCTTTCCTTTCTCG  
TTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGGCCGTCCAGCTCCTAAGGCAGGA  
AGATGGCGGCCGGANAGAAGACNAAAAAGTCNCTCGGAGTCGATCAACTCTAGGCTCCAA  
CTCGNNATGAAAAGTGGGAAGTNCCT

Sequence 177

CCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTATGAATNATTNATTTTCT  
T  
TNTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTCTGCATCTC  
CCCACAGACAGGGGTGGTTCTAGA

Sequence 178

GGTGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGGAATATTCA  
TCAGATTGTCTCTGTAAAAGTGAATCACAAAAATCCACCTGTGTAGGTGTGGGACTGGA  
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTCTCTGAAATA  
TCAGAAGTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGAT  
T  
TTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCC  
ACAGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCT

Sequence 179

GGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTCTGG  
CTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGA  
TAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACA  
AGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTC  
CACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCT  
A  
TTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTTC  
G  
GCCGCTCTAGAACTAG

Sequence 180

GGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTG  
GAAGAAATACGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTACGCCACAGAGTGT  
GAATAGTGGA AAAACCTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATG  
TGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTTACAGAGGAGGTGTG  
TTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAAC  
CTGTAAAGCCAAGAAGAAGAAAT

Sequence 181

GTGGCGGCCGAGGTACTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTG  
GCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCT

Table 1

CCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATG  
CTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAA  
T

GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTT

Sequence 182

GCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTTCTCATGAG  
GGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTG  
GTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAAAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACG  
AAAAAAAACACTGGGAGAGCCGAATAAAAGTCTTTTAGCACGGGTACCTGCCCG

Sequence 183

TCCCGCGGTGGCGGCCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAAGTAGGA  
GCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATTAGCAGTGTGAAT  
CTTGACAACTTATAAATGACTTCTCACAGATAGAAAAGAAATGGTAGAAACCAATGGA  
AAGAACAATATACTGGATATTCAGTTGAAAAAGTAATTGCCTATTAAGTAATGCAA  
GCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATATAATAAAGGGCTA  
CAACAGACGATTTGAATATCAACAGAATTTGAAAGGTGAAAATGAACAACATAAAATAAGT  
GCTGATCTTATAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAGAATAATATTGCC  
AACTTGTAAGTGAAATGAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCCAACTT  
TATCAGGGACATGCAGAGAAAAGTTGAATTAATGAAGAAAAGCCCAAAGAACTTATANA  
GAAAAAGNGATGGGAANTTCANAGGTTAATGCCAAGCTTAGAAGTCAAAAAAAAAAAAA  
AAT

Sequence 184

CCGCGGTGGCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTT  
CTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGA  
TCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAAAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCA  
AATCGACGAAAAAAAAACACTGGGAGAGCCGAATAAAAGTCTTTTAGCACGGGTACCTG  
CCCG

Sequence 185

CCGNGCGCCCGGCAGGTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTA  
TAGCTGTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTG  
GTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAA  
TACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGGAGTCTGCATT  
AGTTGGTGTGTTGCAATATCGTTCAGCAAGAATGGGGTGGTGCAATTCTTGCCAGGTTGTC  
CTGGTGACAGACGGNTGTCTGGCATTGNNAGAGGGCCACTGGGACATTCNNTANCCANTC  
AAAATTAACNAAAGTGNGAGCACNNGGTTTCCCTACCTTTTCNTTCCCATCAANTNT  
AT

ATACCANGGNNGGCGAATTTGNGGGGCCCCNCGCCCCCTNTTCTTTGGGACTTTTAAAA  
CNGTTTGTCTNTTCCNCTTTGGGNGNGGCCATTTTATNTTGGGGGNGCCCCTTGGGGA  
ANANAAACCCCCNCCCCTTTANAAAANNGNCCCCCCCCCGNGNGGGGGGNAATTAA  
AAAAAATTTTNCNCCCCCCCCCCCCCGGG

Sequence 186

TCCCGCGGTGGCGGCCGAGGTACTCACACGTACCGCAAATTCACAGTCTGCGTGCACGG  
CTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTACCCATAATTA  
A  
GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
GGGGTTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
AACTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAA

Table 1

C  
CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTG  
A  
GACAGTCTGATCAGTTTTCGGCCGCTCTAGAACTAGGTGGATCCCCC  
Sequence 187  
GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTC  
CTTTGCTTCAGTGCCCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACT  
TATCATTACAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATCTGCAGAATCGCTA  
CACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCAATAAGGTCCTACC  
CTACTACAGCTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGT  
GGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAAGTGGGCTGATAATGAACCTAAC  
Sequence 188  
TTTGAANCCCACTTNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT  
TT  
TTTTGTAACACAGGTGTCAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGCTCTTCTC  
TGTGCCATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAAACAGCC  
ATGATGTCAGTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTGGTAGTCAGAGGTGGC  
TCCTCAGAGAATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTGAGGG  
AGGGATGAAATATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGG  
ATGGTCAAGTTACTCTAAATGTAGTTAGACAGGACAGCCAGAATACCCGAGGTCTTGTT  
AGGTCTCTGTAACAAGCCGTAGAGGCCAGAAATGTGGTGACAGCGAGACACATTTCTT  
AACTCTTACACTTGTTGAAATGAGTAGAAGGNGACATTTGGTTTGGAATCCCTCCCC  
A  
Sequence 189  
CCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAAGGAAAGCAGCTGCAAACTTCCCA  
TCTGCAGTGTTTGTTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATGAAT  
TCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAAGGCTTT  
ATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTCACATGGACGCGCGGACATTTGGTGC  
CCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTGTCTCCTGCTCTTTGC  
TCCGTGAGAAAGATCCACCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATC  
TCACCAATTTTAATCAGGAATATTCTGTGAAAAAGACTAAGATATCAAGAGAAATTAT  
T  
AGTGACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAAGACTCTTGC  
TTTGAGAAAGACACAAAGAAATCACATCATTCTTATTGGGATTACTGGGCTAGCCATATG  
CCAGAAAAATGAACTGGTCCCTTCTTACACCATATACCAAAAGCNGCCCANGATGGNTT  
ACTTNAATGTNAAANCCAAAAC  
Sequence 190  
CGGCCGCCCGGGCAGGTACCATCGCCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCC  
TGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCCTTGCTC  
AGGAAAGGGGAAAAGTTTGGTTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAACT  
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGTA  
CCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGC  
ATACAAGGCCATCCCCGTGGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGG  
GAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAA  
GCAGTCCAGATTATATAAGCGGAAAGCCATGATGAGAGCAATGAGCATTCCCCATGTGAT  
TGATAGTCAGGAACTTTCC  
Sequence 191  
CGCCGGGCAGGTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAAATGGGGGATGCTGGGACT  
GGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCTATGGA

Table 1

TCATTCCCTGCTGGGCTCACTCACC GGCTTCGTATAAGGTCCTTTT GAGGTTTATTA  
TT  
TCCTTGTCATATACTTGATGCTCTTCATTGGCTTGCTGGGACCTGCCTTAGGTTCT  
CC  
GAGGCATAAAAGGGCCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACAAGGATT  
TTCCAGAATCTTCTACTTCAAGTAGTTACTGGTATGAAGAAGTTTCGGCA  
Sequence 192  
CTCCCGCGGTGGCGGCCCGCCGGGCAGGTA CTTTTTTTTTTTTTTTTTTTTTTTCTC  
T  
GGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACT  
GNGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCA  
GTGAAGGGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCGTACCT  
Sequence 193  
NGGCGGCCGAGGTACGCGGGGGGCTGNAGTAGGCTTCGTCTTCGGNTTTTCTCTTCCTTC  
GCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGC  
Sequence 194  
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCAAGAGCCAGCT  
TTGAAGCCAAGTGCCCCCGCGTACCT  
Sequence 195  
CTTCCCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCG  
GCAAGTGCTCGACGCGTGGCCCGAAAATGCTGCCGAGAAAGAAATAAAAACCTGAAAC  
ATGACGAGAGTGTGTAAAGTGTGGAATGCCTTCTTAAAGTTTATAAAAGTAAATCAA  
ATACATTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTACCT  
Sequence 196  
CGGTGGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATTTTGACT  
GTTTAAACAACCTCAAGATATGTTTTGCAAATACAAAACATTATACAGGTGACTTAATT  
AATATCTACTCCAATTATACACAACACATCATGCTGAAGATTTAGATTTATTGAAAACA  
CTTAGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAGAAG  
A  
GACAGATAAGTGTGTTTGTACATTTTACACAAAATATAATTTGATATTTAATTAAGG  
A  
TGATGAATCACAATCACCATGGTCGCCGCCTGAGCGCCAACCCCTACCCCGTCGCCTCAT  
CGGATCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTG  
Sequence 197  
NCGAGGTACCTGCCTNACAGNGCAGGGCGGTATGCCGCCAAACGCTTCGCAAAGCTCAG  
TGTCCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCA  
Sequence 198  
TTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAA  
TGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTTCG  
TCTCTCATGTGAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCT  
Sequence 199  
GGACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTG  
TGAAGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGT  
TCGTCTCTCATGTGAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC  
T  
Sequence 200  
GANGAGAAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTAC  
GCCACAGAGTGTGAATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGA  
CCTGACACAATGTGTGTCCTTGTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGAC

Table 1

GGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTC  
AGAGGAGCGTGACTGTGAGTACCT

Sequence 201

GCCGAGGTACTCGGGCAAAGAGGGTGACANGTTCAAGCTCAACAAGTCAGAACTAAAGGA  
GCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA  
NAANCTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAAGAAGTA  
CCTGCCCGGGCGGCCGCTCTAGAAGTAGT

Sequence 202

TGGGGCACAGAGAGGGTTTCAGAGGATCCTTGNGAAACACTAGTTAAAAGATGACCGAGT  
GGGGAGAAGTGCGAGGAAAAGAAGGAAATTAGTCTGACTGGCTTTCTGTCTGCACCATTG  
ATTCAATGGAGACTGGGCGGGAGGAAATGGAAGACTAGGGTTGGAGATGGGATGGGTGGG  
GCAAGGGATGGAAAGGAAAAGGCAGACAATAATGCGTTCATTTATAACAAGTAATATA  
TATCAAAGCACTTTAAAGGAGATTANAAGGACCCAATCAGGAATANATTTGGGCCAACCT  
TTANATTCTTTAGGGAAGGATTCAAAAGTTCCTTCCAAAACCTAATTTTGGATGGTT  
T  
TATTNACTAAAAAGCCAAAAGACCAAGTTNTGGGTACCCTGCCCGGGGGCCGGCCCGCC  
TCTTAAGAACCTAGGTNGGGATCCCCCGGGGGCCTGCAAGGGAATTTCCGATATTCAA  
GCCTTTATCGGNTACCCGGTCCGACCCTNCGAGGGGGGGGGGGCCCCGGGTACCCC  
C

Sequence 203

GCGGCCGCCCCGGGCAGGTACGCGGGGAAGTCTNTCCTTTCTCGTTCCCCGGCCATCTTAG  
CGGCTGCTGTTGGTTGGGGGCCGTCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGA  
AGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAATCGTTATGAAAAGTGGA  
AGTACC

T

Sequence 204

CTCCCCGCGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGTTACGC  
CACAGAGTGTGAATAGTGGAACCACTTCAGCATATGGAACTGAATGATCTTCGTGACC  
TGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCTGATGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTACG  
AGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTG  
ACCTGGGAACCTGTAAAGCCAAGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAA

Sequence 205

CNCCGCGGTGGCGGCCGAAAAGTATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGTTACGCCA  
CAGAGTGTGAATAGTGGAACCACTTCAGCATATGGAACTGAATGATCTTCGTGACCTG  
ACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAG  
CAGGGGACTGTCTGATGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTACAG  
GAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTG  
CGTGAAGTGTGAGTACCT

Sequence 206

TCNCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTG  
TGAAGTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCAGT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATAT

A

ACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT

C

Table 1

TGAGACAGTCTGATCAGTTTT

Sequence 207

TCCCGCGGTGGCGGCCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATGNGGCTTCNTCTTCTG  
CCACTTTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT  
T  
AACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCA  
T  
TCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGG  
C  
CTACCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGATCATG  
AAGTCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGG  
AAGGAAAGTCAATTATATTANGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCT  
GGGTTTAACTACCTGCTGCACCCTGAAAAATTGGTATTTACCCTT

Sequence 208

CGCGGTGGCGGCCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAA  
TGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTCTTACAGATGTTCTTCTTCTTCTGGA  
CTTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTNAGTGTAAGGCACAACAAATTAA  
C  
ACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCACTTCT  
CATCAACTACCCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCT  
A  
CCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGATCATGAAG  
TCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAG  
AAAGTCAATTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGT  
TAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGAAGCTCCTATCTAT  
A  
AAACTTAAGAATGTCTTATCTTACTGGACTGGTACTGGATTAAAAAGA

Sequence 209

CACCGCGGCGGCGGNCGAGGTACACGACATAGGCACATGTGCAAACACAAAGAAGGTGGG  
CATGCTGCTTCTTTCTNTCTGCCCTAGNCCAGGCTCCTTTGCTTCACGNAAGATNNACA  
CTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCACT  
GCCTATAAACTGTAGTCCCAATGTNNGGATAGTCAANNGAACATGAGAATCANAAACCAAT  
CTGGGCAATGGGGNATGGCAAGTAATGGNGAACACGCACTAACAGGNACAGTATGCCC  
AACCT

Sequence 210

GGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCNNTGTGAAC  
TCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTCACGAAGATCATTAGTTTCCAT  
ATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCC  
A  
AATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTNCCTTGATCTGAG  
A  
CAAGTCTGATCAAGTTTTCGG

C

Sequence 211

GCGGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGG  
GGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAA  
CTTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTCACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
C

Table I

CAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGA  
G  
ACAAGTCTGATCAGTTTT  
Sequence 212  
GGNGGCGGCCGCCCGGGCAGGTACTTTTNAATTTTTTTTTTCTGNAGAGACGAGGTCT  
TTCTATGCTGTTCAAGCTGAACCTCATGGGTTTATTGGGATGGCTAANGGATGACATTG  
GCTGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTCCTT  
GT  
CTTGAGATTGCTCTTGGAATGGAAATTAGGCTTTTTTGAAGGTGTCGACCCTTTTTGG  
TT  
CATTTCTTCAGCAGTTACTTTTTATTTTTTTTAAAAATGTTTTGACACACAAGTCTTNTGG  
ATAAATGAATCAN TTCACCCAANCAACCCCGGATTACTTCTCCTTGCTCTGGNTNAA  
GT  
NGNTGAACACNTGTCCCCTTTTGAAGAAATCTGGGNCGACAGCTTATGTATCCCCATTCA  
CCACACACCCCCAAAAAATTTATTGTCTTGGGGTCCCCAGGGGAGNTT  
ACCTTTTTAATGGAAGAAAGGTNCCATTCTTGNGGAAAGAACCCCTNNGGAATGNTTTC  
AANAAGGAAACCTTTCCCTGGGGGAAAAACAACCTTGNAAGGAAAAAATTAAAAGGAAG  
GGCCCGGGGCC  
Sequence 213  
GCGGNGGCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGTCTCTGTGCATTGACCT  
TTGGGTGCTGACTTGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCTCGGNG  
Sequence 214  
TCCCCGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTGA  
GGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGC  
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTAACAATATACCTAACATAT  
TTTTATTCAATATCTAACCAGTATAAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAA  
GCTCCTTAAGTAAACAGAAGTAATACCTGATTAATTAGAATTTCCCAACCCTCATCAAGTG  
TGTGCTTATATAGAAGAAACCCAGTAAATGTTTGATTGAAAGATATTAATACTCTT  
G  
CTTGATGAGAGTGAGGAAAAAGGTATTAAGTATTGGCTTT  
Sequence 215  
GNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCT  
TTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCA  
TG  
GAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTTGAGCAGGTCACCTGGGTCTT  
TTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCC  
CC  
GGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTG  
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCA  
ACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTTGAG  
AGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTG  
GAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAAGC  
Sequence 216  
CCGCGGNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTC  
TTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTT  
TG  
TCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACCTG  
GGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACT  
TC  
TGCCCCGGTTGTTACAGGCTGTCTGGTACCGAGATCTCCGACCAGTCTGGGGGCGCTGG

Table 1

CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGA  
GGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAAGTGTG  
TTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCA  
TGGAGTGGAGGCGAAAAATTACGA

## Sequence 217

CCCGCGGTGGCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCA  
ACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAGTTTTAGNTG  
AA  
TGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCAT  
GGGACAAAGTTCTAACCCAGGGGGGGTCCAACTTTTGGCTTCCCTGGGACACACTGGAA  
GAAGAAAGAAATTGTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGC  
AAAAAAAAAAAAAAAAAAAAAGTACCTGCC

## Sequence 218

CCCGCGGTGGCGGCCGAGGTACCATCCTGTTTCNACAGAGCCATTGCCTATTCCTAAATTG  
AATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGACCTTAATAGTGGAACATC  
GATGTGCCCTCCCAACATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTG  
AAGATAGCTCCTGCCTCCAGATCGACTCAGCTTGGATTGTTTACAATAAGGGCAAGCAT  
GCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGGTTTGAATGGGCACCTT  
ACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAATGACAAGC  
ATTGGACTGCTACTTGGTGTCTCTGCTGCAAACTAGGCACCATGGATATGTCTATTA  
CT  
CGGCTTCTTAGCATTACATTCTGCTCTCTTACCCCCAACGTCCACAGAGCTG

## Sequence 219

GTTATTGGTGGTGAAGACCCGNAGCAACAGTGGGCATGTCTTCTCGCGGTGATCGGNTT  
CTCTGGCTCCTTNTTAATTTCTCCTGGGNAACGCGCGACTCCACCGCCATCTTCTCCT  
ACGGCCTGCGAGAGCTCCCCGCGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCC  
GGCT

## Sequence 220

GGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTG  
CTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGG  
TAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGAT  
CAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACTTG  
TTGATGCAGAATACACCAAAACCAGGCCCTGGAAATCTATGAAAGATACCTTAGGAAAGC  
CAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTTAATTTT  
C  
GAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCCTGTGTGGCTCACTTGTTTT  
CC  
ATGTTGGTGATGAGTGGCTAGAAATCTTCTATCCACAGCTGAAGCCATGGGTTCACTATA  
TCCCAGTCAAAACAGATCTCTCCAATGTCCAAGAGCTGNTACAATTTGTAA

## Sequence 221

GCNGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATTTCACTACTCTAACA  
TTCTTCAATGTGGTTCCAGCCACGCATAGTCATATAGATACTACATATNCAAAGATAAC  
T  
TACTGAAGCTTGTTACAGAACCAAGCTTCTCCTGGATAAGCTCTTCTNTCCCCTAC  
CC  
CGCACTTCTTGGGNAAGGTATTACCCCAAAATGCTCTTCAGNGGATTTAAAATAACAAT  
TTTTTAAAAANANGGACACTTAACACTCACAAAAAATGGGGGAAATTTTGCTCGGGCCA  
TTGGACNGCGGAAACCAATTACCGGGTTTAACTTCCAAGNATGGCTTGTCATTTCAAAA  
ACCTGGTATTGGGGGTCCCGTTCGGAAAAAANANATAGGATATTAACCCATNTTTTTCT  
CATAAGGACCAAGCTATTCTTACNTTTTAAATCAACCCAAATTTCTGGGGGGAAAGNCC

Table I

TTTCTTCTATTTTAGGTCTTCGGGGATAGGTCTTNTANTCCCAATAAATAATTGGGGT  
 T  
 AGGTATTCAATCCATAATCCTCCCAGGACCCTGGGTTTTCCCTNGGAAGAAACAAGGGAA  
 GAGGTCNTTGCCTGGTATCCTCNAAAAGGTTGGAAACCAAGCTTGGCNACTTTATCTTCT  
 TAAACTTTCTTTTGGGAAGGAACCCCAGGTTTCAAGATATTTTTTTTGGGGAA  
 Sequence 222  
 ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC  
 AGAGAATGGGACATTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG  
 ATTTTATATCTTACTATGTTTCTCANCAGATGTAGGGTTTTCTGTAGATGATGATGTCC  
 A  
 TATGGCCATATCTCCAAAAGANATGAATCCGACAGCNGATACAAAGTTTTTGGGCTGGG  
 TTTATTGCNTCATATAGNNCTTTGGCCCAAATGGNANGCTTACCCTATATNTTGGGT  
 TT  
 ATGGNCTAAATTATTANGACCCANAGGA :AAGGAGCCTCNTTAATTGGTCTCCCATCTT  
 GATTTTTCCCGTGGNAAGCACAACTGCCCTCTATGCATATCTCCACCATCCCCAAGCT  
 TTCTCATAAANTAAAAA AACCTACCAATGGCCTGGGTTGCNTCCGTNGGGAATTTGNNT  
 GGGGAAATTTGGGAAGCCANGTTTTTTTCAAGACCTTNGGNNTTTACAATTCCTTTGGG  
 AGAAA  
 Sequence 223  
 GGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGG  
 TCAGCCCATATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCT  
 GA  
 GATTTTCACTGAGTTGGTGGTCAGCAATATACAAGGCTCATCGATTTACCTGGAAGTGA  
 GTTGGCTCANCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATC  
 AGGATTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTC  
 CCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAA  
 CTTGCGAGTAGAGGGTTTGTTAGAGTACCT  
 Sequence 224  
 CCGCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCT  
 GAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTG  
 GTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCTCTATTCT  
 GGTGATAAAGATGGGCGTGGCAGCCCAAAAAAAGCCATGAAGAAAGCCACAAAGAGTA  
 GCTGAGTTACTGGGCCCAGAGGCTGGGCCCCCTGGACATGTACAGACTCTCATTTTATGAT  
 GTATCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGAAATGAAAGTGA  
 TGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTG  
 TTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAAAAGATT  
 T  
 GAAAGCAGGTGCTGTGGGCATCTGTATGGGGGAATCGCACTCATAGAATTATTTTCATT  
 GTAAATATTTGGTATCAGGCCAGCAAGGGAAA  
 Sequence 225  
 CTCCCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGG  
 CTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTACCCATAATTA  
 A  
 GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
 GGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
 AACTTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTACGAAGATCATTCAGTTT  
 CCATATGCTGAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAA  
 C  
 CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTGTGGCCATCTTTTCCTTGATCT  
 G  
 AGACAGTCTGATCAGTTTT

Table 1

## Sequence 226

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGGATAGCCGCTTGCA  
GGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGA  
AAGTGCCGACAGCATTGGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGA  
AACAAGAGAACTTGCAGGGCTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTA  
TCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATTTTCCTGAGAG  
AACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAGGCTAATATCACTGACTGAT  
G  
AAAAT

## Sequence 227

CNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCAAAGTGATTTCAGAGAACGCTGGGGCTCA  
CAGGCGCTGTAGCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTTCAGAAC  
CAAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGCTC  
TGCGCATCACAGAGGGGGGCATGGTGTTCCACATGGGAAATTGTTAAACAGAAATCAGA  
GGAGCCATCGGTGTCAATACCTTCTTACAAACTGCATTATTAAGAAGTTCAGGGAGTCT  
TGGGCACAGACCAAGCCAGGAGATGGATAAAATGTTAAAAATCAAGCAACTTCTGCTAC  
TTCTGAAAAGGATAATGATGATGACCAAAGTGACAAGGGTACCTCGGCCGCTCTAGAACT  
AGTG

## Sequence 228

GAGCTCCCTCCTACCCCCTAGCTGAGTAGGCCAGGTTTTGGTGCAAATCTCCACATTG  
GCAAAGTTCCTGCATATGCTGCGCAGTATGNGCCTTGAATAAAAAATCCTGAAGATTAGAT  
GGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGGGCG  
GCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTANGNAGCTTTAAACAGTTACATAT

## Sequence 229

TGGCGGCCGAGGTACTACAGGATGATGGCTTCTCTTCTCTGGGTACAGGCANGGGCC  
ATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATT  
TGGGTGAAGACAAATCAACTGCAACGCATCATTCCGACAGGCCGTACCTGCCCGGGCGGT  
CGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGAACNGNTACATTGNTCAGTTTTTACTTGNAAAAAGT  
NTTATAGAANAGTTTTATTGGAATGTTATTTTATTAAGCCNTTTTCATGGGTTATTTTT  
TTTAAAGTTTAAAAAGTTTTTACAACANGCTGGGNGGGGGGNTTNCACCTGGCATCCCA  
GCACTTTTGGAGGNCCCAGGCGGGCANAAACCTGANGGCGGGGAGGTTTAAAAAANCNACC  
CTGNCCANATTGGNAAACCCNTNTTTTTTCTTAAATTCCTCAAATTAAATTC  
C

## Sequence 230

GGCGGCCCGCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAGCATGG

## Sequence 231

CCACCGCGGTGGCGGNCGAGGTACGACGTTTCCATCAGCTTGCTGTTTCATTCCCTGAT  
GTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTATCT  
TCACCTTCTCTATAGAGCTTGAGGACCCTCAGCCTCCCCCAGACCACATTCTTGGATT  
ACAGCTGTACCTGCCCGGGCGGCCGCTCTAGAAGTGGATCCCCCGGGCTTGCAAGT  
AATNTCGGATATCAAGCCTTATNCGATACCCGTCGACCCTTCGGAGGGGGGNGGGCCCCCG  
GGTACCCAGCCTTNTTGTTCCTTTTGGTGGAGGGGGTTTAAATTTGCCGCCGNT  
TGNGCGGTAAATTCAATGGGTTTATTAGGCTTGCTTCCCCTGTGGTGNAAAATTNGTTA  
ATCNCGGCTACCAANTTTCCACCACAAACCAATANCGNAGNCCCAGGGGGAGGCCATTA  
AAAAGGTNGTAAAAAGCCCTTGGGGGGTGGCCCTAATGAAGTGGAGCCTAACTTCACA  
ATTAAATTTGCCGTTTGGCGCTTCACTTGCCCCGCTTTTTTCCAAGTCCGGGGA

Table 1

## Sequence 232

CGGTGGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTNCCTTNA  
A  
AAAAAAAAANGATATTTAATATATTCAGATCCNCAAATATGAAATAAACTAAGNNGA  
GCTGGTATTCATTTACACATAATTATCTTATACCGTTNGGAATAAGAAATTTGGGGCNC  
GT  
TAGCAAACCAAAAGGCTCAAAAAGACGTCGNGATATTTAGTTCCTGTCTCCCTCTACAAA  
NGGGAAGCACTNTTTTATCCGGCATTCTAGGGNGTTCTATTTTCAA

## Sequence 233

CGGTGGCGGCCGNC CGGGCAGGACGCGGGGGCCAGTCTCTTCGGGGACTAACTGCAACG  
GAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGT  
T  
AACCTATAAACGCCAACAAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGT  
CGGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACANGATTTTGGGCACCAAAAAGAAAT  
ACTTCAGCCACTTGTAAGAACTGGGTATAAANAAGTCCATCTGTGGGACAGNAAAAAC  
CGACTGTGGNTATTATGGAANTGTTCCGCTGGGTATTATGGAGGAATNGGGAAAGGGA  
AATGAAAAAGGGCTGCCCAAGNCANTTTTTAGCCCATTTGACCCANTGGTTTTATTTGGG  
CACCTTCTGGGGCCATCCGGTNGGGGGAGGCNCACCCACCAAACCGGNAAGCCGCCTTA  
TTTCTTGGACCGNCCCTNAAANAAACCTTGAAGGGGGAAGGGNGGAATCCGGAGGGGG  
AAAAGGGGGGA

## Sequence 234

CGCGGAGGCGGCCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTTT  
ATATATACGTAGACACACATACATGTATATATACACACACATTTTACATATATATA  
TGAAACTGTATAATGTGTTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAAT  
T  
AATTCCTGTTATCGGNATATGGGTATCNAAATTTGNTTTGCCCTAGTTTTTGCCTTCTC  
A  
TTGCTTTCTGAATTGGGGCAGCTTTGCCCTCAAGGGGAAATTTAGCAATGTCTGGAGA  
CATTTTTTTTATTTTCATAATTTNGGGAGGGGACATGGGGGGAGGTTTGGTGGCTACAGG  
AACCTTAATTAAGGTTGAGGGACAGGGGTTAGGTGCTTGAACGGTTNCCACANGTAACA  
CTTCGGGCNCGCTTNTAAGAAACCTAGGTGGGATTCCCCCNGGGTCTGGCNANGGAAA  
ATTCCGANTATTNCNAAGCCTTANTCGANTACCCCGGNCGACCCTTNGANNGGGGGGGG

## Sequence 235

CGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTATAATAATTTTGT  
CATTTTTGTAGAGACAAGGTCTCCCATGTTGCCCAGGCTGGTCTCAAACCTCCTAGGCTCA  
ACTGATCCTCCTACCTCCACCTNTGCCTCCCAATTATCCCCAATTGAGAGATGAAAATTC  
TGACAAGCTCTCAAACGTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGG  
CCTAGNAACNTTGAATCCAGGTNCTGTTAGNAAATCTAGGGTTTGAGAAATCCCATT  
TCTNTCCACTTCCCGCGGTACCCTGCCCCGGGGCCGGGCCGCTTCTAGGAACNTAGGT  
GGGATCCCCCCCCGGGGCTTGACGGGAATTCGATATTCAAGCCTTATTCGGATAACCCGT  
CCGACCCTCGAAGGGGGGGGGGGCCCCGGGTACCCAAGCTTTTTGTTCCTTTTAGTGG  
AGGGGGTTTAAAT

## Sequence 236

GCGGCCGNC CGGGCAGGNACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGC  
AGCCCCCTCTCGACAGGCCACCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTGGC  
AGCCATTGCAGCTCCAAACTGCANNAGGCAAGGCCAATTTAACTTTTCAATTTACAGTC  
GATTTTGAAGAGCTTTCTACATATCCGGTTATGTAAANTTCATATATGTATTTTTTGAA  
ATCAGTTCTTATANAACCAGCCTCCGATTCAAGTCTTAGGCTAAAATTTATAGGTCC  
T

Table 1

AAGGGTAGGTATGGTTAACAATTTTGGAACTTTTTGGTCCTTAAAGAAAAAGGTTGGAC  
 TTGTTTCAANATANTTTCTNTCTTACCTNGTGAAAAGGAAAATCNTTACTTTTTCTTAA  
 TTAAGGAATTCTTGTTACCTTCGGGCTCCGCTTCTTAGGAACTTAGGTGGGGATC  
 NCCCCCGGGGTCTTGNGAAGGNAAATTTTGAATATTCAAAGGCTTTTATTGAATAC  
 CCCGGCTCGGAACCTCGGNAGGGGGGGGGGGCCCCGGGTACCCCCAAGCTTTTTTNGT

## Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCT  
 G  
 ACTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCA  
 GCAATATCACAAGGCTCATCGATTACCTGGAAGTGGCTCAGCTGATGGGGGAAG  
 TGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCGGTCTCTCATGT  
 CTCTCAAGCGAAAGGAAAAAGGAGTGATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
 CCCAGATATACCAACTGATTGAGTATCTACACAAAACCTTGCAGTAGAGGGTTTGTTA  
 GAGTACCT

## Sequence 238

CCCGCGGTGGGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGGA  
 TCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGAGTATGAGCTTCAA  
 CCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTTCCAATT  
 GAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGAACAGGAAACAGCATCCT  
 TGGCCGGAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
 ACGCAGCAGCTCATGGAAGGAAACAGAAGTGTCCGTAGTTGACACACCAGGCATTTTCG  
 ACACAGAGGTGCCCAATGC

## Sequence 239

CCGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAA  
 ACCCAAATACAATTAGCACTTCTCTGCTGGTATCCCTGGGCGGTCTTAATTATCTAG  
 AG  
 GCCAGGAGGCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTCA  
 GTTTCTTAAGTAGGCAGAGCAGGTCATCAGTGTATCTAATTCACACTATTAATACTG  
 T  
 CTTGCTGAAGAGTCTGACCCTGCCAGGAACCCCCGTTATGGCCTAGCCCCAGNNGGAAG  
 NCAGTAAAACCTGCCAANAGCCAGGAGAAAAAGGGGGGCCAGTCTTAAGAATGAAGGCC  
 TAGGTGCTTGGCCTGGAGCTCCAGTTTTAGGGTCTGGTACTGTTTCTGGTTTCCAAC  
 TTATTAAATCCAGGGGATGGACCTGGTTACCTCAGATTTAGGTTGCCTTATGGTAGGA  
 AAAATAGGAATGCCACAGGCCAAAAAACATTAATTTGGGGGGGATGGACTTGGGCAGNC  
 ACCCTTTTTTTTTTCCCTTTTC  
 TT

## Sequence 240

GNGGNGGGCCGGCCCGAGGTACTTTTTTTTTNTTTTTTGGTATGACTATAGATGGC  
 TA  
 GTGNGTCTTTTTATTAGCTATCANCCTTCATTTAACAGACAAAAATTCAAGTTCAATG  
 N  
 NNGGNCATTAAATACGGAAGAATTAACAATAAGTTCATTAATCAATCTTTCANCTGTT  
 C  
 CTATTTTATCACAAATNACTTTTCTTANAATTGGAANAAGGATNCATGGGAAGGGGACAA  
 GTCTTGGAAAAACGCAAACCGTAATTGTGTTCTTTCAAATTCATAAAAGACACTTCAGG  
 NNCAAAAAATAAATAACAAGGNAAGGGCCGCNTCATTACCTNTTAGTTTNGGGNGTN  
 GGAAATTGAATCATGGCCAAGTGCTAAGNGCNTTTTTGCTGNTNAGTTAACCCNCCGTG  
 CCCGCGTCNTAGGAAACCTATGNTGNGGATCCCCCGGGGCTTGCCANGNGGAAATTT  
 CGAATAATCCAAANGCCTTTATCCGGAATACCCCGTCCGGACCCNCCGAAGGGGGGGGG  
 GGG

Table 1

## Sequence 241

GCGGTGGCGGCCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAAGATCGGCAA  
GTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAACCCCTGAAACATGAC  
GAGAGTGTGTAAAGTGTGAAAATGCCCTTCTTAAAGTTTATAAAAGTAAATCAAATTAC  
ATTTTTTTTCCAAAAAAGTACCT

## Sequence 242

TGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACAT  
TTGGGGTTATATTGAAGAAGGTTACGCNACAGAGTGTGAATAGTGGAAAAACCTTCAGCA  
TATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTATTGGA  
G  
AAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCA  
ACCCCATGAAGCCCAAGGATGGTTCAGAGGAGCGTGAAGTACCT

## Sequence 243

GTACGCGGGGTGCTGGGATTACAGGCACGAGCCAGTGCGCCCAGCTGCCTCTGTTTCTTT  
TATTAAGCTGTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCC  
ACACACTTTTTGAACTGGCCCGGTACAGGGGGACATAACCATTTNCTGTGCCACCCCATC  
AATCCCCACCTATTCTGAGTGTAGGCTCCTCCCTGCTTGAGTAATGGCCACAGATCTTG  
GCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCC  
ATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGC  
CACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAATCTAGTAATTAA  
TGAAGTAATAAATTCTTCCAAAGGGAAAAACGCAAGGNAGAACATCAAAACAGCTTGTGC  
TTGTAGTTCTCAATGCACGCAAGGTCTGAAAAGTGTNCTCAGAAGACTCTNNAAGAGAC  
GAAACGAACCTGTGCCTGTAACTTTGAGGNGAAAAGAACAAAATGGCTCTTAGGNGG  
TCCCGAAAAAN

## Sequence 244

TCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCACCCCGGCC  
CTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTTGAAC  
AT  
CTTTCATTAAACATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTT  
G  
GGGCATTCTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTT  
T  
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGG  
GCTCCACTTTATCCAGTGCCTCGGAAGCCGGAGGGCCCCACCAAAAAGAGCAAGGGGA  
ACCCTC

## Sequence 245

CCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAATTGCTTGAGTGAGTTCATGGTCCGTAGG  
AGGATGACCACTAGCCCACCACCTTCCACTGTTTCTACAGTCCTGGNCAGCAAGTTTGGA  
GTTAAGGCTTCAAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGTGG  
GTCTCGTTGTAGTAGCAGTAGCGAATGTTGTGGCTGCTATGAAGAGTTCAAAGGGGTCG  
TCCTGCTTTATGTTCAAGTGTTCATTCTTTATTTTCTTCTGCAGCTGTCGCA  
T

## Sequence 246

GCGGCCGTGGGGATCAGCGTAGGTGAGCTGNGGCCTTTTGCGAGGTGCTGCAGCCATAGC  
TACGTGCGTTCGCTACCGAGGATTGAGCGTCTCCACCCATCTTCTGCGCNGNACCATCT  
ACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAAGAATATAAAGAA  
ATAGTTCTTGTCCTCAAAGGAAGGAACTCTTGAAGGATTGAATTCAGCCCTTCTTGAT  
CTTGGGATCTCTTGGTTGGGAAACGGAAGGAAANAAATNGGAAGCCTTGTCCTCGCAAGNG  
CTTTGTCCANANAAAGGGGAAAACATTCTGGGGAATGGACCCACCTTTAAACCATCTAC  
CAAACCTTCCAAGCCCCTTGGGGGGTNTATTTGGTCCCCAACACAAAAAATAGAAGTA

Table 1

TAAAGAAATANAGGTTANCCTTCGGGCCCCGCTTCTTANGGAACCTAGNNGGGGAATCCCC  
CCGGGGCCTTGCCAGGGGAAATTCNGGAATNTTCAAAAGCCTTTATCGGAATACCCCGTC  
CGGACCCTTCGGAGGGGGGGGGGGGCCCGG

Sequence 247

GGCTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTGTT  
TGTCTGAAGAANGGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATTCCCCTTACTCAA  
GNCCCAAGGGACTTCTCCAAGTAGCCGACAACTCTGCCGGGCCGCCGCCATCTTCCGG  
GCCCCGCTCTAGAACTAAGTTGGGGATCCCCCGGGGGCTTGCAAGGGGAAATTTCCGAA  
TATCAAAAGCTTATCAGAATAACCCGTCCGAACCTTCGGAAGGGGGGGGGGGGNCNCCGG  
GGTACCCCAAGCTTTTTTGTNTCCCTTTTAAGTGGAAGGGGGTTAAATTNGCCGCCGC  
NTTGGGCGGTAAANTCANTGGGTCATTAGGCTTGTTTTCCCTGGTNGTCGGAATAATTG  
NNTTATTCCCGCTCACCAAATTCNCACAACAAACAATAACCGAAGCCCGGGGGGAGGCCA  
TTAAAAGGTTGGTAAAAGNCNCTTGGGGGGTGGCNCTAAATGGGAAGTNGAGCCTAAA  
CTTCACAATTAATTTGCCGTTTGGCCGCTTCACTGGNCCCGCTTTTCCAAGT

Sequence 248

CCNCTCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTNCAGAGACNAGGAATTTAATTAGGGNTGTAACAAATGGTTA  
ATTNTAGNAAGAAAAACCAAATTGAATAATTTTCTAATCACTTGGCAGGGGGGNCCTCG  
CANCCNTAATGAACATCACATAATGAAGTTNCTCCTTTCCANATCTATAACAGGCTCAT  
GTAATACTGATNCTCAGTAAAANGNNCATAATCCAAATNTNTNTAACAAANGGGGCT  
TGCTATAAATCTCTTACATTTTAANACTTACTCTTAANAAATCATCTATTCTTCCCTC

Sequence 249

AGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAAGCTGGAAGAAATAAGATTGGG  
TGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTGAATAGTGGAATAACCT  
TCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
AT  
TTGGAGAAGTTCACAAAGCCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTC  
AATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCAT  
CCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAG  
AAGAATGGAGAGCCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

Sequence 250

CGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCA  
GCCCATTTATCTTTAATCCGGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGG  
ATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCC  
ACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAACTT  
GCGAGTAGAGGGTTTGTGTTAGAGTACCT

Sequence 251

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCG  
TCTACCCGGGAATCCGGGGTCCCTGACCGATTCACTGGCAGCAGGG

Sequence 252

AGGTACATTTTACTACGCACCCCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTG  
C  
GTGCACATGCACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTCCCAGGTGATGCTGACACTGCTGGCTCATG  
GAACCACTGCTGTAGTATTTTCAAATTATCCTGATTCTAAGAACCACCTATGACCTGT  
G  
CTGTTTTTCTGTGGTTACTGGCTCATGTACATAAATCTTTTAGGATTCAAACATGT  
T

Table 1

TGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACC  
A  
CAGGTATATCATAACAAAAAGAACATGAGTTACCATTTTTACAAAGTTCAGATATATT  
T  
AAATTAGCCTATTTAATCTTTTTTTTGGGT  
T  
Sequence 253  
GGGNGGCCGGGCCGCCGNCAGGGTACTTTTTTTTTTTTTTTTTTCTACCAGTAG  
CC  
TATTTAGATTTATTAAAAACACATAGGTAACCGAGTCANAGCTTTGGCTAGGAATGAN  
TTGGAAAAGAACTGAAGGCATAATTCCACAGGACATTCACAGTTAGTGTGCTAGAAGACA  
NGAGAGGGAAGCAGGGAAAAAGTGTTTTAAGAAAGCATTTGCGGGCCGGGACAAATGGGA  
AAGGGCCCGGGCTTTCATCGAAATCCCTTGTTTTGCCTTGGATCCCACAATCTTGCTTG  
GGAAAAGGGTGGGGACAAGAAGGAAGNGCCCAAGGGATGGGAGCCACCCGATCCCAAGA  
CCAAGGAAGTANTTTTGGCGCTCCCGGGANGGGGGGGCAAATTGGATCCTTTGGAATCCT  
TCAATGGGTGGCCTNGGGGGTAGCTTAAGGGGGCCCGGTGGAATCCTCCTTTCTNGCATT  
TCCGGGGGGCCGGGCNAAATNGCCCAAGGGGGGTACCCCTCGGGCCCGCTTCTAAGAAACC  
TAGGGNNGGGGATTCCCCCGGGGCTTGCAANNNGAAATTCGGAATATCAAAAGCCTTAA  
TCGGATACCCGGCGNACCTTCGAGGGGGGGGGGGGGGCCCCCGGTACCCAAGCTTTTGGG  
T  
Sequence 254  
CTCACCGCGGTGGCGGNCGAGGTACTCATGGNTGCTGNAAATCATGGCAGCCCCGTCTG  
CAGGNTNTGCTTAGCCAGGCTCCTNTGAGATCTGGCTATTNTGNCTTGTTGATNNTCAG  
TCCCCGNGTACCTGCCCCGGG  
Sequence 255  
CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGGGGGGTGCAA  
AGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTT  
CAACCCACGACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCAGAAATCCCA  
ATTGAGAATTGTGTTAGTGGGTAAACCGGAGCAGGAAAAAGTGAACAGGAAACAGCAT  
CCTTGCCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTA  
GAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACACCAGGCATTTT  
Sequence 256  
ANCGCACACCACACNTCTGATTAATNTTTTGNATTTAAANNTTtagGTGGGGCTNCACC  
ATGTTGCCAGACTGGTNTTGAACCTCTGAGCTTAAGCAATCCACCTGCCTCGGCCTCCC  
AAAGNGTTGGGATCACAGGCGTGAGCCACCGCATCCGGCCTCATGTTCTTTTTCATTAAA  
GAGAGAAATCACTATTCAGGACCGGCCCCACCTTCTCAGGAGTCATTTCTGTTCCG  
CACAGGCCTGCTGAACTGGGTGCTTTATATAGGGNANAGGGGGCCTCATTTTTNGTTCCC  
CTGNCCCNCAAGCNTTANGGGGCAAAAANAAAACCATNCCAANAATTTGGNAAAGGNNT  
TTTTTTTTTNAAAATNNGGNNNGGGGGGGGCCCCCTCNCTTGNGGTGGGNGGNTTT  
TNCNGGNGNNAAAAAAAAAAAAAAAAAA  
Sequence 257  
AGCTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCCAAGACCGGCCTTGCGA  
GCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTTGGAGGTACAGTCAA  
TTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGA  
ATATTCTCTATCTTCTTACCAACGAGTAAGACCGTTTTG  
Sequence 258  
GGCCACGTGACCGACGCCAACATNGCGGCGCCAGTGGCGTCCACCTGNTTTTCCGCAGA  
GGTTCTCATAGAATTTCTCTTCACTCAATCATATCTACTNACACAAGCAGTCAAG  
C

Table 1

AGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTTACACAGTATAGTT  
TTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTTCCTAAGCACATAAAGAAGCCAGACTAT  
GTGACGACAGGCATTGTACCTGCCCCGGGCGGCCG  
G  
Sequence 259  
GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCCGGGAGGCGTTAGCGAAGGAAGAGAAAA  
CCGAAGACGAAGCCACTACAGCCCCGCGTACCT  
Sequence 260  
GGAGCATAAAGNTGTAAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTA  
ATTGCGTTGCGCTCACTTGNACCGCTTTCCAGTCGGGGNAAACCCTGTCCGTGCCCAGNC  
TGGNATTAAATGGAAATCNGGCTCAAACGNCGCCGGGGAGAGGAGGGCCGGGTTTTGCCG  
GTATTGNGGGCGGCTTCTTCCGCCCTTTCTTCGGCTTCAACTGAACTCCGCTTGC  
GC  
TTCGGGGTNCGGTTTTCNNGGCTTGNCGGGGCGNAGGCCGGGTAATNCAGCCTTCAACTTC  
AAAAGGGCNGGGGTAAANTAACNGGGTTTATCCCCACCAGGAAATCAAGGGGGGAATA  
NACCGCCANGGGGAAAANGAAACCATGNTGGAGCCAAAAAGG  
Sequence 261  
TGTGTTGAAAAATTGTTATCINNCTTCACAAATTCACACAACATACCGANGCCCCGGNNA  
GTCATAAAGTGTAAGCCCTGGGGTGCCCTTAATGTAGTGAGCTAACCTCACATTAATTG  
CGTTGNGCTCACATGCCCGCTTTTCAAGTTCCGG  
Sequence 262  
GGCGCGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAAG  
ATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTG  
CTCACGGAGGCACCCCTGAACCCNAAGGCCAACCGGGAGAAAATGACTTCAAATTATTGT  
TTGAGACTTTTCAAATGTCCCANGCCCATGTATGTGGCTTATCCAGGCCGGTCGCCTGTC  
TTCTCTTATGCCTCTGGNACGCACATCCTGGCATCTGAGCCTGGACTCTTGAGATNGGG  
TGTTCACTCCACAAATTGTTCCCCATTCTTATNGAGGGGGGCTATTGCNCTTGCCCCC  
ATGNCCNATCATTGNCNTTCTNGGATTCTGGCCTGGCCCGANGAATCTTCACTTGAATA  
CNCTTCATTGGAAANNATCCNTGGACCTGGAANGCGTGGGGCCTAATTTCCCTTTCCGT  
TTACCTAACCTGGCTTGNAAGCCGNTGGAGGAATTGGTTCNCGGGGGACCAATTCAAAAG  
GGAAGAAAANCTGG  
Sequence 263  
CTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTT  
C  
TTACTAGAAGCTAGGCNGAAGAGTTGTTACTCANATTTCTTGAACCTTGAGACGTCAAAG  
GTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCCG  
Sequence 264  
CGTGCGGATCTTCTTTCTTTTGNNGCTTCCTTCANGGGGTCAANAAAACCCTTCTNGGCC  
TTTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTTCNCCTTCGANNTC  
GGCGCCATCTTGNGAAAAGCCCCGCGNACCT  
Sequence 265  
AGCNNCCCGCGGTGGCGNTNGCCNNGGCANCCCGCGGGGTGGAAACCTCTTCAGCATTN  
GCTTNNNNTCAGGGGGCTAAAAAACCCANCAACCGGGACCCAGCTTTTCACTGACG  
GGNAACAGCCATCATGAGNGAGGGCACCAAGAATTCCCTGGAGAAAATCCTTCACAGCT  
GAAATGCCATTTACCNGGAACCTATTCAAGGAAGACAGNGGCTNNTNGGGANCGNGGGG  
ATAGAGNGCGCAACCAGGGNGAAANNNTTAAACACNGAGNNCAAAGNGGNCNGGGNCCCN  
CGGCCGCTCTAGAACCAGGGGACCCCCGGGCCCGCAGGGAANNCCGANANCAAAGCCNAA  
NCGAAACCCGGCNACCNCGAGGGGGGGGGCCCCGGACCCAGCNNNNNGGNCCCCCNAA  
GGGNGGGGNAANGNCGCCCNNGGCGGAAANCAAGGGGCAAAGGCNNGGNCCCCNGGGG  
NAAANGGGNANNCCGNNCACANNNNCCNCACAACAACCAAGCCCGGAGGCANAAAAGG

Table 1

GAAAAGCCCN

Sequence 266

AGGTACTTTTCTAGGTATTGCTGGGCAAGATCCTTGTTGGAGTCCTCCTTTTGCTG  
CC  
CCACTCAGAGGATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGC  
ATCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTGCCC  
GG  
GCGGNCGNTCGAGCCGCCGGGCAGGTACTACCTGNACCAACTTTTTTCATTTGGGCATCAC  
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGNTTATATGAAAGNCAGAAAGTTAGC  
GAAAATTCGGCCTAAACAGNAATAAATGAAAATGGANTGGAAATCAAAGNNCTTAAATAG  
AACANGAAGGCNNGGCACCGGNGGNTCACGCCTNGNANNCCCAGCACT  
T

Sequence 267

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACCTCATTTCTACCAATCATT  
TTAAGAGAATTTGGTTGTATTTCAAAGAACAAAACACAATTTCTGTCTGCTGTTT  
A  
TTTTAGCGGTGGTCGCGGCCGAGGTACGGATACAATTCGGCTGAGTTAGATTCGAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCA  
AGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAATAC7C  
GTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATG  
TA  
AAGCAGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAAT  
TGTCGGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 268

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTATATGAAAGTCCTCACTTTTCTCAGA  
AGCAGAAAAGGAGTAAGTAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACA  
ACGTCTACTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTG  
C  
AAGTGAAGACCTTCTGGCACTGCGACCACTAAACTGTAACCTCCAATAATGAAGAACTT  
CACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCCATGGTCTTTTCTGAACCCA  
GAAGGTGTCAATGACAAAATATAACTAGAAATGATAACTGTGATGGCAGGCATCAACAG  
ACCTTTCAGAAATAGAAATGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCTT  
GACAGATATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCT  
C  
TGAGAAATTAATTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAATTTT

Sequence 269

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACTGAAAGACCA  
GCAGAGGCATAAGGTTTCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTT  
GAACCAACCTCGAGCGGCCGCCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGTTTAG  
GCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCC  
AGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCAAGTAG  
CAACCAGGTCTTGAGAAAGCCCTCTCTTGTTGGAAGAATAACAGCCAGGAGGAAAAGCTTT  
TCATTCTGCAAAGCTGGGGCAGAAAGTTCTTNTTTGAATCCCGGTACCTCGGCCCGNTC  
TAGAACTANTGGATTCCCCCGGGCTGGAGGAATTC

Sequence 270

GTCTTCGGNTTTTCTCTTCTTTTCCAGGGCCTCCAANCCCTCGTCAGCCTCCCGC

Sequence 271

GGGAGGCGNNAGCGAAGGAAGAGANTNTTCGANGACGAAGAAAACCCAGCGCCCCCAGC  
NACCT

Sequence 272

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCACAGTTAGCTGCAGCAAAACGCAGGCTGC

Table 1

CTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTGTGTCAATGTCCCACCCGTCCCAGGTA  
ACATTTTGCCCCCTGAGGTCCGGGGTAATTTAATGGCTGCTGGACAAAACCTCCAAAGTT  
CTTGAAAGATCAGAAATGATAGCTACCTGGAGTCCAGCTGTACGGCAGTTGGCGTAAAGC  
CGCTTCCCTCAAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGCAAGAAGATCC  
ATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTGAGAATCATGTTGAAGCTAAACC  
CATATTGCAAAGACCATGCGCCGGAACACCATCTTCGCCAGGCCAGGAATCACAAGCTC  
CGGGTGGATAAGGCAGCTGCTGCANCANCGGCACTACAAGCCCAATCAATGAGAAGGCCG  
GCGGTTGCAGGCAAGAAGCCCTGTGGTAGGTAANAAGGG

Sequence 273...

TNTTAGGGNCAAACACGGCCCCAGCCCCGCGNCCCAGNCNGNGCGAANGATTTTTTCAGGG  
NGACAAAACCCAGGNCACCCACCTGCCCG

Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCTCAGTTC  
TAGTCAGAATAATCTTGCTCATCTCCAGCTCCCCCTGTTCCACCAAGGCAGAATTCAG  
CCCTCATCTGCCAAAACCTACCACCAAAGACTTACAAACGGGAGCTTTCGCACCCCCCAT  
GTACGCGGGGGAGGAGCCTGAGGAAGAGGGCGGCGACGGTGGTGGTGAAGGAGCGGAGCC  
CGGTGACAGGATGTTGGTGGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCAAAACTCCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCAC  
AGGAAACCTTTGCA

Sequence 275

CAGCGAGCACGCGTNTTCCGCAACCCGAAACCNCTTACAGGAGGTTTAANACNCANCCC  
AACGGGGAGAGNGGGGAAACATGANGACAGANNNGGGGAANGAAAATGGNACCTCGG  
CCGCTCTAGAACTA

Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTCACCGCACCGGCCCTCGGTGCGATT  
ACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCANCCGCGTCGATCTTTATG  
TTATACCGTCACTCCCAGTGCCCTAATGGAAGTATCCCTCCACTACTCCCCCTGGTTCTA  
CCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTCAGGCCCGGCCCA  
TCAAGCCCTCCCCGCGTACCTGCCCG

Sequence 277

GACTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGCGGGCCCTACCGTGTGCGCAGAAA  
GTGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAACTCANCT  
GTTGCGNTGCTTCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGTTGTTGCGGCAT  
TG  
CCTGCTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCTTGAA  
GCCACCGACAACGATGACATCTATGGGG

Sequence 278

TTCGCCCCGGGCAGGTACTTTTCATCCATAAAGGCCTGCAGCTGTTTCACTGATCCTTGCA  
TTCATCCATCACCAACTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTCT  
G  
GTAGTCAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTTT  
CACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTCTTTAGCCT  
C  
CTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAACCTTTGTTAT  
GTATTCCTTCATCTCAGCCACAGATGCTTCCAAAGAAAAATCTGATGCTTTTCCATTG  
A  
ATCTTCAAAACATTTTTGNAGAGTTCCATCAGTTTCCAGGCCGTCTGCAAAATGTTTCA  
A  
TTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCAAGACTGAAGCCCTTAGTGGC

Table I

CCTTANGAAAGGGT

Sequence 279

CACTGTTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATT  
CTTCTTACTACCCATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTCTGACACCT  
CACCTGGCATAATATAAAGTGTTTTTTTTTATACCCCTTCCACTTGGAAAGACTACAG  
A  
GGAATCTTGCNCTGCATAGTTCAAACATAAAAGAGAGTTAATTACCTGAAAAGCAAG  
AGAAAACAAGAAGGGGTAAATTTGAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATT  
TTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGATG  
G  
AGACATGCTTATTTTATTTAACTCCCCAAAATTAAAAANNAAAAAAAAAAAAAAAAAA  
AGTCCCTGCCCGGGCGCGCGCTCGAGATAAC

Sequence 280

CCGCGGTGGCGGCCGGAGTNATGCCATCTGCAGGTTTTGTGATCTGCAATGATTCTTCCC  
TTGAGGTCAGCCATTATCTTTAATCCTGACTTTTTGTGGAGAACTCCGACATGA  
GA  
AACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGGTGATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATAC  
TTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTAC  
ACAAAACTTGCAGTAGAGGGTTTGTTTAGAGTACCT

Sequence 281

GGGGGGAGACATGTGGAGGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGA  
AGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAACAG  
ACTAGGGTGAAATCCATACAATGGGAATGGTAGCAGACAATAAAAGAAAATGAACTATT  
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTCTCTGAATGAAAGAAGTCAGAG  
ATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGC  
AAGCCGTTTTCCAGACAAGCNGNGATGTGGGGATGCCACAAGAATTCAGGACTGGAGGGG

Sequence 282

CGCGGTGGCGGCCGAGGTACTTNTNACTGCCAGAGGCTGTGACGNTGTGTATTTCNGAGAG  
CAGCCTTNCTGCANTGATNCCATCCCGCAGGAATCNAANTTCTCCCTNGATACNGNGCA  
CTCTGCCTGTCTTTCCACNTTCCCTTTCNCATTTTGCANTACACNGTTCACCACNCT  
GC  
CCTTAAGGCTTGAAACTCACNCCACCTTCAAGCNTCCCATGGTTCTCTGCCACTCATGG  
GTCNNGGNAACCAGGGTGGACAAGGGGGCCAGAATCAAAGNCGTTCTTTACCCCCACCC  
ATGGGCCAAGGGGAATGGGGGCCCCAGNNNGGGTTCCCCAAAGGCANCAAGNAAAANNA  
ACTTGANACTTGGAAGTGGANGGGCCATTGGNAGGCAAGNCCTNGAAAANGCCANAAAA  
AGGGGAGGGGNCNGNAACCACCNCAAAAAAGGTTTGGANGGCCAGNAAAAGGGANANNGG  
GCCCCAGGGGAAAAAACCTTTTGGGCCCCATTTTTTTTCCAATTTTCCAATTGGGCCT  
TG

GGCCANTAATTTCAAAGGGGAAGGAATTANCCTTGGGNAAAAGGGGNTNGGGGGGGG

Sequence 283

TGGCNGCCGAGGTACAGNATTGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATT  
CTTGTGCTGTTGGATATCAACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAACCTG  
CAAGACTGTGTCCTTCCCTCCTGAAAAGATGTCATCGCCNACCAGATATAAGAAAGACG  
GTTTGCCCTTTTCAAAAAGACCCTGGGAATGGTGGGCCCATTTCTTTGGTNGGGNCTTCC  
CAATGGCNCAAAGNAAAGGGGAAANGGGCNATTGTGAAGAAGGAANANAGTATTTTTACC  
TNGAAAAAGGCCATAAATGGTGNANANAAATCTTTCCANAAATTCNCAAGNNGGGTGG  
CANGCCCTNTAGTANTAAAANTANCGNCCCAAAGGAAAGGNTCANGTTTAAAAGGGGT  
TATTTGTGTTGTTNGGGGTAAAATCNCAAGCCCCAAATACCCCAAACCTTGNCCTTGAA

Table I

CTTGGCTTTTCNCAAAGGTTTCNAGGCTTTCNATTCTCAATCCCCCCCCAAAAGGGGAGG  
AAACCNNTTCC  
Sequence 284  
GTGGCGGCCCGCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGT  
GAGGGGAAGAGGCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGACGCTCTTTAAGAGTCT  
GCACTGGAGGAACTCCTGCCATTACCAGCCTNCCCTTTCTTTGCCAGAAAGGGGAGGGGG  
GGAAAAACAATNACAATTTTATTTCCATTGGCCCAAGTNCTTGTNTNGCCAATTGNCAAG  
TGCTTTTTTTGGGCCNTTNTCTTACCCCTTTGCCAAACCAAGAAAACNAAATNTTG  
N  
CNACNCAAANCTTCCCTTTAGTTAGNCGCGGAATNTCNCCGCCCCACAAGTAAGAAAGT  
TCNCNTGGNNAAGNCCCACCAAGANCTTTTTTTTGGCTTTTTTGCCAATTTGGTGA  
AG  
GGAAG  
Sequence 285  
TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATGTTTTCAAGGG  
TATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTTGAGTTATGGGTGC  
AGTTCTACTACAAAACACTAGTTTTTTCTTGACTTACTTAATGAGATGGCCCATAAATT  
TAATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTCAGCTTTGGCTTTGCTCTCTCTCTGC  
CATCTGATAATAGTGTTATCCAAGATAAATCTGTGGGATTATAAACATTTAGTAGAA  
G  
GCCTGCATGATGTCATGACGGGAAGATCCTGAAACAGGAAACTTATAAAGACTGTATGTT  
GGATGGTCTCATCTTGAGGGAACCCAAAAGTAACCAGGAAGATGAATGAAACCACCCAC  
Sequence 286  
GCGGCCGAGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAGATC  
TGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTC  
ACGGAGGCACCCCTGAACCCCAANGGCCCAACCCGGGANGAAAAATGAACCTCAAAATTA  
TTGTTTTTGGAGAACTTTTCAAATTGGTCCCCAGGCCCATGGTATTGTGGGCCTTATC  
CC  
AAGGCCGGGTNGCCTGGTCTTCTCTTATTGCCCTTNTGGGGACCGCCACAAACNTGGGG  
CAATTNGNTGGCCNTGGGAACCTTCTTGGGAAAGAATTNGGGTNGGTCCAACCCCCAACAA  
AATGGNTCCCCCAATTCTTATTGGAAGGGGGCCTTAATTGGCCCCCTTTGGCCCCC  
CAATGGCCCCANTCAATTGGNCCGTTCTNTGGGGAATNCCTTGGGCCTTGGGGCCCCGG  
AAGNAATTCTTCAACCTTGGAACTTAACCCCTTCAATNGGAAAAGAATTCCCTTGGACCT  
TGGAAGGCCGGTGGGGCCTAATTTCCCTTTTCGGNTTTAACNTAACCTTGGCTTGGNAA  
GCCGGTTGGAANGNAAATTTGGTNCCCCGGGGGAACCATTTCAAAGGGGGAGGAAAAAANC  
TNGGNGGTTTTAATTGTTAAAGCCCTTCTTGGGGNACTTTTTTGAAAAAA  
Sequence 287  
CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCNAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGNGACC  
TGACACANTGTGTGTCCTTGNTCTTATTGGAGAAGTTCACANAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTGATCGATCGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCA  
GAGGAGGTGTGNTATCTATCGATCATCTCAGAAGGTCTTAATTATGGGTGAAGCTCTT  
GACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAAGCCGTGCACGCAGACTGTGAA  
TTTTGCGTGACTGTTGAGTACCTCCGGCCGCTCTAGAACTANTTGGATCCCCCG  
Sequence 288  
GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATG  
ATGCA  
Sequence 289

Table 1

GGACAGACTGGCTCATNGAAGACATTNACTNTGATGGGACCATTNTNAANCNGATAATTTT  
TCTCATAACCTGAGAGGAGTNATCCACGAAGTTTNGAATNTTGTTCCTTAATTGA  
T

CGTGAAAAAGAAAAGGCTGGAGCTGGAAAAGAGTTTCCTTTGTAAGTGTCCTTTATTGAA  
ATCTATAACGAGCAGATATATGATCTACTGGACTCTGCATCGGCTGGA

Sequence 290

TGGCGGCCCGCCCGGGCAGGTACGCGGGGCCCGTAGGAGCCTCTCTCCCTACTGCTGCTAC  
ACAAAGACCCTGAGACTGACCTGCAGGAACCTNAAACCATGAAGAGCCTGATCCTTCTTGC  
CNTCCTGGCCGCCCTTANCGGAAGTAACCTTGTGTTATGAAATCACATGAAAAGCCATTGG  
GAAATCTTTATGGAACTTAATTCNCCTTTNATTTAAANCCAGGGNAAGNNAATATGT  
N

AAAAATTCNCCTTTTTTATTANNTCCCCCTCTNCAATCCAAGNANGNATGGGGGAAGCNA  
GCNTAAACCNCCTNCNNATNANANAGNTNGGGTTTCTAAATAAGNAANCCTTTCTTTCTA  
AANANGNNCNTNGNGTTCCACCGATATCTTTATATATTNNGGGATTNANCCCCCNCNTN  
TGNNAGNTTATNTACTTTNACNNANGCATTTTTTTTTNGTGNAAAAAACCCGNCNT  
T

AACCNACCCCAANTNGGGGTTTTTATATTGGGGGNANTNACCAAAATGGCCTNGGCCCT  
TNTATNANAAATCNGCGCTTTNNCNTTTATAACNAGGGAAAAAAGCCCCCCCCCANNGG  
GGGNANNNCCNAAATATNTNTAANATNNTTGGNNGGGGAAAAAAAAAAAAA

Sequence 291

GAGCCCGGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGGGGAGTTA  
AATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTANCA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTCCTTGGGTCAAAAT  
T

TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAAC  
TATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACACTT  
TATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGGTTGGCTCACGGGTG  
ATAGGNGTAGTAAGAAGAATTTACCGAAGACAGTATTNGGTTCCGAAAAAGAAAGTTTGA  
T

Sequence 292

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTNGCTTGTTTTATCTTTT  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAATCCCACT  
CT

GACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCTNCCGCTC  
TTTTCTCAGGTGGAANGTTTNCCTTAAGATCACGCTGACGTCGGACCCACGGCTGCCGT  
ACCTGCCCCG

Sequence 293

GTGGCGGCCCGCCCGGGCCGGACGCGGGGACATTCGAGTGGGGATTAAGAGAAGGAAGGCT  
GCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGCAGGCAATAGAACTACTTTG  
CTTTTGGAGGAAAAGGAGGAATTCATTTNAGCAAGACACAAAGAAAAGCAGTTTTTTTT  
CANGTGCTGACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAN  
GTTCTTCAAGGCANAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTG  
AATACCTCTGAGAATAGAGATTGATTATTCNACCAGGATACCTAATTCAAGAACTCCAGA  
AATCAGGAGACGGAGACATTTTGGTCANGNTTGAACATTGGACCAAATACA

Sequence 294

GCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTTN  
TGTAAGTGAACCTTGTCTTTCAGNNCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAG  
ATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTGCATNNCTCCCTCTTCCCC  
AC  
AGCAGNGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTNATACTT

Table 1

CTTTCCTTACACTCATTTTCCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGG  
TATAGCTGCCTTGCTTTCATGAAAACACACTTTCCTATTGTGATTATCAGAGGCCTT  
C

CATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATA

Sequence 295

CNCGCGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCC  
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCC  
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCA  
ATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTA  
GAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGACCCT

Sequence 296

CCGCCGGGCAGGTACGCGGGGCTCCCTTGAGTAGACTATGCAAAGAAAAAGTGGGCCA  
CCATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGAC  
TCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGGCCGGAGCAGCAGCTTACAATG  
AAAAATCAGAGACTGGTGCTCTTGAGAAAACTATAGTTGGCAAANTCCCATTAACCACA  
ATGACTTCAAAAATTTTAAAAA

Sequence 297

GCGGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGGGCGGGAATTG  
AAACCGCCGCTGAAGCCAACAAGAATTTGAGAAGTGTAAATACCAAGCCTTGAAAGGGAC  
CATGGTGGGCCTGTGAGACATAAGAAAGCCAGTCAAATTCTCACAGTTTGACCACTCTG  
ACAGTGATGATGATTTTGTCTGCAACTTGACCTCGGCCGTTCTAGAACTTANTG  
GA  
TCCCCCGGGCTNGNAGGGAATTTCCANATTTTNAANCCTTTTTNCGGANCCCCNCNCCN  
CCCCNAANGGGGGGGGNCNCNNGCCCCNCNNTTTTNNNTGGCCCCNTTTTTGNNG  
GGGGGGNGAATTTANCNNCCCCNCNCGGGGNAANAAAAATAGGGGGGNAANNTTTT  
TTNTTNNNGGGGGNAANAAAAATTTTTNTCTCCCCCCCCAAAAATAAAAAACNCGNCCC  
NCTTCTNTCCCCGNTGGNNGNAAANNANTATNGNGGTCCCCCNNGNGGGGGGGGGAN  
ANTTTTTTTTTTNNNAATTTTTTTTT

Sequence 298

GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACTAGATGAGCT  
GCTATAGTAGCAATCCTGTTAGACTTGACCATTGTTGTCTGAAGAACTGGAATCT  
GT  
CGCTCGCCCTGAGCACTGTATTTATTTCCCTTACTCANTCCCCAGGGGACTTCTTCCAA  
GTAAGCCGACANACTTCTTGCCNGGCCCCGCNCGCNCANTCTTTCCCGNCCGGCTTCTT  
AGTAACTTAGGTTGGGAATCNCNCNCGTGGGCCTGGCNAGGGGAAATTTTCGGAATTA  
TTCAAAGGCCTTTATTCNGAATAACCCGGTTCNNACCCCTTTCNAAGNNGGGGGGGGG  
CACCCCGNGTTAACCCCAAGGACNTNTNTTGGTGTCNCCCTTTTAAAGTTGGAAGGG  
GGGTTTTAAAAATATTGGCCGACCGNCTTTTGGGTCCGNTTANAATTCGAATTGGGGG  
GNTCAATTAAGGNCTTGNTTATTCCCCTTNGTNGTTGGAAAAATTTNGTTNTAAAT  
T

CNCCGNCNTTCAACNAAAATTTTCCNANNCAACCAAAACCNAATTAACCNGAAGNCC  
CCCGNNGGGGAAGNCCAATTAATAAAAAANNTTGGTTAAAAAANGGCCCTTGNGGGG

Sequence 299

TGGCGGCCGAGGTACTTCTGTCTCCAGTTTCCACTTCAAACCTCTATCTTCTCCAA  
AT  
TGTTTNACTCTACCACTCCCAATTAATCTTCCATTTTCGTCTGCGTTAGTAAATGCG  
T  
TAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGGATTTCAAAGGGTCTTT  
TT  
AATTCACCCCTCCGGGTTTTAAATCCTCTTTTTTAAAAAGAATCCGTCTTCAAAAAAT

Table 1

TATNTTTAAATTCACCCTTACCAACCTTTTTAAACCTAAAAACCTTTAAAGGCTTGTTT  
TAAAGGTCCACCCTTTCATTTTTTAAATCTAAAAAAGGCCATTTGGCCCCCTTCTAATT  
T  
GGGNTAATTNAAATTCGGGGGGCCTCTTGTTAGGTACCCTNTTCTCTTCAAATTTTTAT  
C  
CTTTTTTTAAAAATTACCATTTTTTTTTTACCTTCCCATTTGAAAGGAAAGGCCTTTNCAT  
TCTTTCAAACCCCTTCCCGGTTCAATTGGTTTTTTAAGGAAAAAACCCCTTTTTTNAT  
TTCTTTTTTCCCTTTTCCCTTCCAATGGCCCTTAANCTTTCTTTTCTTNAAGGGT  
GCCTTCCAATTAATTTTTTTCTTCTTTAAAAAAAATTCCTTTTA

Sequence 300

CGCGGTGGCGGCCGAGGTACTTAAGGTTGACTGGTAATCAGGGTAACTTCTGATACTTAT  
CACACAAGATGGTGCCTCAGCATTTAAATAATGGAGGTAGGGGAGGGCGTGGTGGTAAC  
ATACTTTTAAACCAGCGATTGCACAGCAAACACAATGCAAGGTATTTCTGACTCCAAG  
ATTGCCCGTTTCTTAAAGAGCAATTCCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGC  
TAACTGCTTTTCAATAATTCTTGATGGCCTTCGATTCTGGATTCAGACATCTCTTCTCA  
C

CCTTCTTTTTCATTGTAGCAATGATCTCAACACGTG

GA

Sequence 301

TCCCCGCGGTGGCGGCCGAGTGATGCCTCTGCAGTTTTGTGATCTGCAATGATTCTTCC  
CTTCGAGGTCACGCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACAT  
GA

GAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTTCATCNGATTTA  
CCTGGAACAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCCAGCATCAGGATCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTG  
ATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTAT  
CTACACAAAAACTTGCGAGTAGAGGGTTTGTTTAGAGTACCTCGGCCCGCTCTAGAACTA  
GGTGGATCCC

Sequence 302

TTGGAGCACCCCGCGNGGCGTTTTGGGACGCNCGGAACNGCAATGCTTCAGGACCCACA  
GGAGCGACTCTTTAAAGGGACCACAAAANCCGCACAGAGCTGCAAACAACTATACATGAT  
ATAATATTAGAATGTGTGNACCTGCCCG

Sequence 303

GNNGCGTTTTAGGGCGNAACGGCCCCCATCATGGCGGACCCTAGAGAAAGGCTCTTAGG  
GGGACCNAACCCGNNGCCCGAACACAAGGAGANCGACGGCCGCTCTTNAACCAGNGGAG  
C

Sequence 304

TCGCCCAGAGCTTTCTTGTCCATCTTCTCCCGCTGCTGAAATTTAGTTGCGGGCGCTG  
TCACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGT  
AGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAGCTTCA  
GGAATCCCCGCGTACCTGCCCCG

Sequence 305

NTTAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAAACCCAGCAGC  
TTTATCAAGCAGAATTCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCC  
AC  
CCTTAGCAGGAGTTGGGGAGGTATTTTTAACAAGGCACATTATCATCTCCCCACCCAAA  
GTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTAT  
TAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGT  
G

AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGT

Sequence 306

Table 1

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCAGCGGAAAGCTCAGCCC  
ATGTGAGGTGCCTCCTGCCAATCACAGACTACCTTCCCTGGTCCTGGAGGTTCAAAGAA  
TTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTG  
TGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGA  
CAACTCAACTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TG

TTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTA  
CCCACTGGTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATAT

Sequence 307

CACCGCGGTGGCGGTTTAGCCCGGCGCNAAATCACCATTATTCCTTTAGTCACCTCAG  
AGGCTTGTTAATGCTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCA  
G

TTCTTCTTTACCAGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTNGACCCCTCTTCGG  
TTAACTCCGCTTGTCTCTACAAAATGGCGCCGGAGGTCCCCCGGTACCT

Sequence 308

TGGGGNAACCCGCGGNGGCGGTCTTGGGGNCAACACGGAACCAACGAAACCGCGGCTGC  
ACCAGCNGNCTTTTTTNGGGGNGCCAAAACCCGAGCAGCCGAAANCNGGAACNGCCNCA  
GNNGTGTNCCNGCNGAAGAANGNCNANCCAGAGAGGCCAAAGNACCC

Sequence 309

CCCGCGGGGGCTTTNGGGGGCAANCGAACACCNCTTAAAGGGNNCNCNTCTAAAAATNT  
TTACNGGNAGAAANAAAACCCACCAACCGCTTTTTANTATCGAGNGTCAGAAACCNITCAG  
AAGATGGNAAAAAAAAAAGAAAAAGAAAAAAACAAAACCAAAACAAAAAACT  
TTACAACCACAGCTAANGCAANNNNNNCCANGGNTCCAGTCAGCTCCAANNCCAAGGGG  
NGCAAAGCCCANNNNNNNCCAAAGCATCAAANGANAGAGACAGGCCAGGAAANNCTNTAT  
NCTATNGGGAGCAGCANNANGCAGGGGCAGCCAAACACAAAGCNNCAGGACAAAANGGACC  
NGCCCGGG

Sequence 310

CACCGNGGACAAGAGCAGGNGGTNCTTGGGGGGNGNAAAACCCGCNCCGCGANGCAAGAG  
GCTCNGCACAACCACTACTNTNCAGAAGAGCCGGGNCNGNCCCGGGAAAAAGAGNGCG  
A

Sequence 311

CCTGAGGAAAAGCTCGCACCAAGGNGGACGCGGATNNGGTANGGGGGGTAAANACCCNCC  
CCAACAAGCCGCGGGGCAAAANGNCCNCGTACNTCGGCCGCTCGAGAACTAGCGNACCCN  
A

Sequence 312

CCCGCGGTGGCGTTTCCNGGCCAGGCACTTGGAGAAAGTATAGCAGCAACAATGCCTAT  
TTTTNACAGGAAACAGAACANATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGT  
TTTCCAACATCAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAA  
T  
ATTGAAGAATTAATAGAGAACTTCAGTCTGGAATGGTGGTAANGGATCAGATTTGNGAT  
GNGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAA  
GAAAGCAGGCTACAAGATCTTTTGGAAACAAAACTCTAGCCCTTGACAGGCTGATAGA  
CTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

Sequence 313

CCGGGCAGGCCCTTAGCATTAGATTGAGTTATGTTGCTAGGAGATNTTATTCATCAGCT  
GATCATTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTA  
TTGTAGACCTGTCTTGTATGAAAAAGCAATGTGATAGTCTTAAATTTATCTTTCTA  
AACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCTTGGTATTGTTACCTA  
AAAGGAAGAAGTAGGAAAACTGATATAAGTAGAGAGNTTATTTGGG

Table 1

## Sequence 314

GNTTGGAGCTCCCCGCGGTGGCGGTGCGAGGTACGCGGGGGGTCCTGGAGGTTCAAAGAAT  
TGCAGGAGGGTAGNAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGT  
GCGCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAATGTGCGAGAGCTGT  
AGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAAGCCCAAGTGATTGACCCACACACTTA  
CCTTTGTGTTCCCTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTCTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGT  
GATTATTGGTTGTTGCGGCATTGCCCT

## Sequence 315

CTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCNGTCAAAATAAATTAATT  
GT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGNGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCCANTTACAGNAACCCCTCTTGGTATTGTTTACCTAAA  
A  
GGAAGAAGTGTAGGAAAAACNGATATAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGT  
TACAACCCAACTGTATGGAGACAAGTTGGCCTGAACAATACACATTCTTATTAGCAACAG  
NTATAAGTAGGNTTTCAAAGAAAAAGAAGAGGCAGNTCCTAA

## Sequence 316

TCGNCCGGGCAGGTACAGAGACCTNCTTACTTACCCCCCTTNTCCTTCGGCTGGAGCTCG  
GCGAGCGAGAGGCGGCCGCTGGCGTTGGAGAGCGACGGCGGGCCCCCGCGTAAGCAGTGGN  
AACAAACNCAGAGTAACGCGGGAATGAAGAATNTTAGGCGGGTGACCCAGTTTNCACCAT  
GATTAAGGGTNTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTTG  
GG  
ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTT  
GAAGAAGAGTGCAGATNCACTTTGGGGGATCCAAAAGGA

## Sequence 317

TTTCGCCCCGGGCAGGTACTTGGAGAAAGTATAGCAGCAAACAATGCCTATAGACAACAGG  
AAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACAT  
CAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGAAGAA  
T  
TAATAGAGAACTTCAGTCTGGAATGGTGNTNAAGGATCAGATTTGTGATGTGAGAATAT  
CTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAAAGCAGGC  
TACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGCTGATAGACTGATTGCTC  
AGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

## Sequence 318

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTATTGATGTTGAAGATGAGAAATCT  
CCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAAATGAAGGTAGTTGTCACAGTGAT  
CAGATGAGCAACGATTTCTCCAATGATGATGGTGTGATGAAGGAATCTGTCTTGAAACC  
AATAGTGGAAGTGAAGGATCTCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAA  
CTTTTCTCTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTAT  
A  
AAGTCATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTTTCATCTAGCC  
TTGTAGAATAAGTCCCAGTGAACTGATATTCTGCAGAATCTTCACTGTTAT  
AT

## Sequence 319

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCAAN  
G  
TTCAGTTTCTTTAATGACCCCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATG  
GCAAGAGATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTCAGCCAAAGAA  
AGGGCACGTTCAAATGAGGTCAGAGTCATATCATACTGCTGGGCATAGAAGCAACACAGC

Table 1

CCCAGATTGTTAAAAAGCTGGCCGTTATAAATGCCCATCTGCAGCAGCCGCCTGTAAAC  
CGGAGAGCTATTTCTGGCTGATCAGAATAGAAGTGGTTG

Sequence 320

ACCCNCAGGAGACGCTCGNAGCCCCCGCGCTNNTCCGGGGNCAGAAAAACCCAAGAAGCG  
GCTCACGCCTTCCAGAGCCACATCATNTNTGGNCGAAANAGAAGCCCAGACNAGAGGAAG  
GNGNAGGAGGCCNGCAGGNACC

Sequence 321

CAAGCGGAGNNAACCGAAGAGGGGNACTTGGGGGGCCAAAAAACCCGGACCCAGGAGNNN  
CCNGNGNCCAGCGCNGCCGGTTCCGCCNGAGGGGGGCACNCCCCGCCAAGGCNGGAGNG  
CAGCGGCACAANCCCNGCNCACNGCAGCCNNGANANNCNGGNCNCAGGNGACCAGCACCC  
NTGCTNTTTNTACNGGGAAGNNGCNAAGCNACCNGNCAANANAGCANACAAANNGAAACN  
GGGGGNGGNGAAGGANCNNAGAAGNNGGANGCCAGGAAANGGGANGAAGACCAAANGGGC  
CANGNNNCAGAACAGAGAAGACCCCNNGNAA

Sequence 322

CTCCCNGAGCAAAACACAANNGNTTCTTNCGGGGACAGAAAACCCAGACCCAGCTNCA  
GGGACAGCCTGGACTACTTTNTTTTACACAAACAAACCTCCCCGCGNANNCTCCTGGGC  
CA

Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAGTCTTCC  
ACAAAAATACTTTATTTCTGATCTATACAAATTTTTCAGAAGGTTATTTTCTTTATCATTG  
CTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACTTTTTTT  
TTTTTTTTTTTTTTTGGAAAGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACC  
T

GCCCACTCGCACCAGGTTGTCCGTGTAGCCAGCAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCCCG

Sequence 324

GGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAANGGGGACGT  
TA  
AATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAAT  
T

TACCCCTTCTTGTTTTCTTGTCTTTTTCAGGTAATTAACCTCTTCTCTTTT

Sequence 325

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAGCAGAAGATGCTTCTG  
GTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATT  
ATTTTGTGGATTTTCTGTTCCATTTTGTGCCTCCTGGACACCTCAGGTAAATTCTCCT  
C

AGAGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGNGAAGACCTGG

Sequence 326

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAAGGGGA  
GT

TAAATAAAATAACGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTA  
ACAACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAA  
ATTTACCCCTTCTTGTTTTCTTGTCTTTTTCAGGTAATTAACCTCTTCTNTTTTTAGTTTG  
AACTATGCAGTGCAAGATTCCTNTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACA  
CTTTATATTATGCCAGGTGAGNGTCAGAACCCTGGCATCGGAAA

Sequence 327

GCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCCGCGTACCAGCACA

Table 1

AACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 328

CGCGTCCGCCCATCTCAGTGTACAGACACTCCTGGGTTTGAATTTTGTGTTCTCT  
GT  
CTCTTTGATTTCCTGGAAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAA  
GGAAAAAGAGGCTCTGTCTTAGCACATTCCTGTGACCAGCCTGCTGTCTGTGGCGTGCCC  
TCCTGGCCCCGGCCTTGGCACATGTTCTGNTTTGTGGTTGTTGCCTGGACAGGCAACTCTG  
CAGGGCTGCTTCTCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTGTCAAGGGC  
TTTTGGGTCAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCT  
GGTGGGGCT

Sequence 329

NAACTTTACAGGATGGCATTTAATACAGATATTTCTGATTTCCCCCACTGCTTTTTATTT  
GTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCANCAACACTGAAGAGATCA  
GTAGTAAGAAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAACTCATACTA  
TATTTCTAAGCCTGCA!TTTCACTGATGCATAATTTTCTTATTAAATATTTAAAGAGAC  
AGTNTTTTCTATGGGCCATCNTCCAAAACCTGCTATGNACCATNCAACTTAGGTTCT  
TA  
CNTTTCCTGCCTTAAATTTNTAATGGAGNAANGGATATTTCTTTCAATTTTTAAATTT  
GCATTTTTTGGGGGAATTATACCTTCCCACCAATCTTTTGANTNTATTTTCTTTGG  
A

CCTTAAATCATGAATTTTTTTCAAATTAANAAGGTTNNAAGNTTTAAA

Sequence 330

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATNGTTCACTCACTTTCAAAGCCAGCT  
GAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGACTTTTACGGACT  
TGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTT  
TTTTTTGGCTTTCTTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTC  
CTTCATCCTCAGAATCTGAGAATCTTCATCACAAGCTATCCGCTTGTCTGATGCTCG  
AA  
TAGAAATCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACAGCA  
T  
CTTCTGGAATAGCCTGCATCTGGACACCCAGGTGCATGAGGTAACATGCGCAAATTTTCA  
AACAAACCGCTGGTTTATCTTTTC

Sequence 331

CTNCCGCGGTGGCGGCCGAGGTACTAGCAGTTGCCAATGAAGGAGGCTTTGTTGATTGT  
ATAACACACGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGG  
AATGCCGTCTTTGACCTGGCCTGGGTTCTGGTGAACCTAACTTGTTACAGCAGCAGGT  
GATCAAACAGCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGT  
CATCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTA  
CC  
TGCCCCG

Sequence 332

CCGCGGTGGCGGCCGCCCCGGGCAGGTACCATCTGACTTGGCAATGTAATGACACACACGT  
TAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAG  
TCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAG  
TAGAACATGGTACCT

Sequence 333

CGCGGTGGCGGCCGNTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAAATGGGAAGGG  
AGGCGGTGTTTTGCTGATCTGTAAATTCTTAGTGAAGTTTCTTGATTTCCAGTGGCT  
G  
CTGTTGTTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCCTAACATTTCTGGGACTGAA

Table 1

TCCAGGCANGAAAAAAAAAAAAAAAAAAAAAGGTACCT

Sequence 334

CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGACGTCCTGAGCGATGGAGCCCGGGGGTGC  
CTGGTTATTGTCGCTTTCTCTCTCAGATGCTTGGCTTGTTTTCAAGAGAACCTTTTT  
C  
GATATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTTCAGAAAATTGTTTCAAGGCA  
CT  
TAAGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGT  
AC  
CTCGGCCGCTCTAGAACTAG

Sequence 335

GCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGACTGCTAACAACTTTCAAATTCTT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAAAGTATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T  
CAACATCTGAAGCAAATGTTGGGTGGGGGGGTACCTCGGCCGCTCTAGAACTAGGTGGAT  
C

Sequence 336

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCATGAAGGAGATGGCCCCCTTTGGGAGC  
AACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTTCCAGCCAGAGGAACCGACTTT  
TAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGT  
GGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGTATCCCTCTG  
TCAGCAAGAAATGGGATGTGCCAGGCCCTGCACAAAGGGCCCTCTACAGGGGGTGGCCACC  
CAGAGGAAGGGACAGTCACGTCTCGCTGGCAACAGGGGTGTTGCCCTGGGGCTATTGAAGA  
GACCAAGACGCTCCTGGCTATTTTTTAAGTAGTTCTCAATTTTTATGGGNAAACTNCA  
A  
GACCTTNTTCAGCCAGNAACAGCCCCAGATTCTTACAGGGGCCATTGGGCGGAAGGGACT  
CTTGGGAGCCAANGGGTTTTTTT

Sequence 337

CCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCTGGACATG  
CCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACAATACTCCGCCTGGTGGAACTTG  
AGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTT  
TGTCCTTAGATTGGTCCACTGGGAAAAGTGAAGGGCCGGGGACCAGCCCTTGAAGATCA  
TTAGCAGTGAATCCACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGC  
TGCAGAAAGTGGCCTCATGGCAGGCACATCAATTGAGGCCTGGATTGCCGCTTTCAATT  
ACTGGCATCCAGAAATTGTGTATTCAGGGGGCGACGATGGCCTTTCTGAGGGGCTGGGAC  
ACCCAGGGTACCTGCCCCGGCGGGC

Sequence 338

NAAAACNCCCCCGGGATAGAAGNNATTTTTNTCAGGGCACANANTTAGAANCCAGNNG  
GNTTNTANACCCAACTGGCAACATCAAGAANGAGCGGGGGGGGGGAAAAANTGACAGGGA  
CGGGGAGCGGGCNCACAAGNGGCAGGGAAGGGAGACNCCACCNGNGGGGGGNCCTGGGGG  
CCNGAACCGNACAAAGGGGNGGNACACTGGCCGCCGGGNGCCGGGACGGAANNNGAAGN  
AANNTAAGAAGGGGGANCNCCCCCGGGGGGTGNAAGGGAAAANGGCGAANAANNCAANGC  
NCAAAANCNGAAANNCCCCGGGNNNAACCCNCGAAGGGGGNGGGGGGNCCTGGGGGAACC  
CCAAGNGGGGNTGGAATCCCCAANAAGAGGAGGGGGGCGGAAAATNCCGGCNGCCGCC

Table 1

AAGGGGGNGGNAAAACNAANGGGGGCAAAAAAGGGCCNNGGNNNNCCCCGGGGGGGAAAA  
AAAAAGGGGGGNAAAANCCCCGGCCAGGAACAAAAAAAGGCAAAAAACAAACCAATNA  
ACNNGGANNNCCNNGGGGAGGCCAAAAAAAGGGGGGGGAAAAAGCCCCGGGGGGGGGG  
GGGGCNCNNAAAAAGGAAGGGGGGGGGGCCGAAAAACNGCCAAAAAAATANAANNNG  
GGCGNNTNGGGNNGCTANCNAAAANGGGGNACNGGGGGNNCTTCCAAANNAAGGGGG  
AAAA

## Sequence 339

CGCGGTNGCGGCCNTCNTTTTGTTTTTTTTTTTTAAATAGCTGAAGATTTAGATTTAT  
TTGAAAACACTTAGTCTAATTTATATTAGGTGCAGAAAAATCACATTCAATAAACACA  
A  
TTGTAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGATNTT  
T  
AATTAAGGGATGATGAATCNCAACCCCTTGTTAATAATGATTTNTTCTCTCAGTAANT  
A  
GCAAGAATCTNTTTTGNNGTTCNCGGGNCCTCNNGGGGTTTATTCNNANACNGGGNGCCG  
TTTTANAAATTTTAAAGGAATTTTTNTTTTTTAAAGNCCNNTNCCCTTCCCCTTTTT  
TGGGCNATTTCCCCCNNGNAANAAAAAATTTTNCCCCGGGGGNATAACCCCCCCCNAG  
GGGGTAAAAAACCCCCNTCTNNGACNNAAATTTTTGGGGGGGCNNGGTTTTTTTTNG  
NAANAANTTTTTTNCNNNGNNAAAACCCCNCTTNTAGNNGGGGGGGGGGGGGGNGNT  
TT

## Sequence 340

CACCGCGGTGGCGCCCGCCCGGGCAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCA  
GAAAGAGGAGGCGCTTGCTTCAGCTTGTTGGGAAATCCCGAAGATGGCCAAAGACAAC  
AACTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

## Sequence 341

GCGGTGGCGGCCCGCCCGGGCAGGTACCAAGAAGATGCAGTTAAATACTGCCAGTTTTT  
CAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCTTAAACTTTTCTCACC  
A  
CACCCACCTTCCCACATGCATGATATCCAAGGTGACAGACCTGGATTAGAATCCACTCT  
CAAGCTTTATGCAGTGCGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTTTGGTTTCTCACTG  
N  
TATCTTCCTTTCCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCT  
TCAATATTTTACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC  
ATTTTCAAATGTTTGCCAACCTCACACAAGTGTGTAAAAATAGGGCTCT

## Sequence 342

CCGCGGTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTT  
CATTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAATGGTGTTAGCTACAT  
G  
TCGACACAGCATCTTAGCCAGTTTTCTTTGGAAGTTCATCTGATGTCATCTGGAAAC  
T  
GAGTAGCACATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCA  
ATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGT  
ATGCAAGTTTAGTTCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTTCTCCA  
CTTTCCTTGTCCTATTTTTAATAAGACAAAGAACATCACCATATTAAGTTGAAGTACCT  
G  
CCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCCGGG

## Sequence 343

CCCCGCGGTGGCGGCCGCGCCCGGGCAGGTACATCAGAGATGCTCACACCATTCTTTGAGTA  
GTTTAAAACTCATTTTAACCACTTTTATTCTTTGTATTCAAACCAATCACTGGCAATA

Table 1

GCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
C  
TTCTTCCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCCTTAGAATCTCAAAAGGCA  
TGAGGATAAAGCTTTCTCGGAGATAATATAAGTGGTGGCAGGAAGATTTGGGAGCCAGAT  
GATACTCTTTTCTCTTAGAGAAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAA  
TTCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCA  
AA  
ATGTGCTTCAAATATAGTTTAAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAA  
C  
TACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGAATCTAGTAG  
TAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGGTAAATATT  
TTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAAAAAAA

Sequence 344

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
GG

GGGAGTTAAATAAAATAAGCATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACA  
A

ATGTAACAACCTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCTTGG  
T

TCAAAATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTTA  
GTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAA  
AAAAACATTTATATTATGCCAGGTGAGGTGTGACAACCCTGGCATCGAAAGTGTTGGC  
TCACGGGTCATAGGGTAGTAAGAAGAAATTTACAGAAGACAGTATAGGTTTCGAAAA

### Sequence 345

AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAATGCAGAAGCTC  
CTCGAAGGGCCACCATCATCTGCAAAACACCAAGCAGGGCAGTCTCTTATGCTGTGGCT  
CTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGCTCTCCTGCTCTATCCGCTGCTGTGGC  
AAATCCTCTAAAAACAGCGTTTTGCACAGCAGAGAGCAAAAGTCCGCTTGTTATCCACCC  
GATACGTGAGCTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTGCCCTCA  
CCCTTGACACATGCGGACCCTCCCCAGGC

Sequence 346

GCGATTGGAGCTCCCCGCGGTGGCGGCCGGGGTACAAGAGAAGAAAGACCAGTCCTTGCT  
GAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAA

TTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTGAGGAAATTTGACTTTCCATT

CTCTGCTGGGATGACGTGAGTAAACCTGAATCTTTGGAGTAGCCCATTCCTTGGATGTCTAC  
AATATGACCGCTTCTTATACATTCGCATATATGTGGCCAAAGGAAACAATCCATGTTTC

AAATACACCTTTCTTATAGATTTCGCATATATGTTGGCCAAAGGAACCACTCCCAATGTTTTC  
T  
AAAAGCGCGTAGACAACATATATCGCGCTCGCGTCTCGCTTTTCCGCTTTTGCTTTCGTCAT

AAAAGGCC TAGAGAACA  
TT  
GGCGAATTACTGGAAGATG

Sequence 347

AGCTCNC CGCGGTGGCGGCCCGCCGGGCNNGGTACCACN GCCAGCTAATTTTTTATGTT  
TGTAGTAGAGACGAGTTTACCATGTTGGTCAGGATGGTCTCAAACCTCTGACCTCAGGT  
GATCTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCATACTGG  
CTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAG

A  
CATACCCTTTACGCGCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCACTCCA  
GCAACTGCTTTCAATCGGAGTTCATCCTCCGCCGCAGTATGCCCTAACGCAAGCGTTAT  
CTTCAGAGCTACCACCAGGNTTCCGAACTTTTCGGNGGGAGGCGCTTTNGCCACCACC

Table 1

TNGCCGGGNNACGGNTNGCGTNAAACCAAACCTTTGAACGGCCAGNCCCCCGNGGTAC  
CTTNGGGCCGGTTTAAAACTAAGNNGGGGATNCCCCCGGGCTGGCAGGGAATTCGAT  
ATTCAAGCTTAATCGATACCCGGCGACCTTCGAGGGG

Sequence 348

ACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTGACTGCTAACAACCTTCAAATTCCTT  
CTACTTACTCCCTCTTCTTCAGCTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGGTATCATCAGCC  
T  
CAACATCTGAAGCAAATGTTGGGTGGGGGGTACCTCGGCCGCTCTAGAACTAG

Sequence 349

CCCGCGGTGGCGGCCGGAAGGAGGACGACGGTGCTGTGCTGTGTATGAAGAGGCAGTGAA  
GACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAAGATTTAC  
TAAGAAGTCAAATAGTGGGTTCCTTACAGGGGAAGAGGTTGGAAAAACCATGACTGTATT  
CAGGAAGGCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTTC  
GTTGCTGTGTATAACTTCTGAGGGAAGCTCTGGAAGTGCCAGTAGCTGGAAGTGAATT  
GTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAG  
CCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGAAACCC

Sequence 350

CTCCCGCGGTGGCGGCCCGCCGGGCAGGTACCCGTGCTAAAAGACTTTTAGTTCCGGCTCT  
CCCAGTGTTTTTTTTTCGTGATTTGGGCACAGAGTTTCCTGGTTCACGTGGATGTGA  
GG  
ATCCTTTACTCCAGATCGCCAGCCAGTTTTTTGTTTTTTTCTGCGTTGCTGAGAGTCT  
G  
GGTTTATTCATCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATC  
CATGTACCT

Sequence 351

CCCCGCGGTGGCGGCCCGCCGNNCTGGTACTTATAATGCCNNNNNTTNCNGGNTGTGAAT  
GGATTACANTGTATCTTTTCAGGGAAACCTATTATTATCAATGTGACTCCACNGGGGGAG  
TCCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAACTTGGAAAC  
AAGTTTAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAAATTGTTTGAGGAAAAA  
TCATAACTATCCTGTGTTCATTTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTT  
TTTTTAATGATTTCTTTTTTGGGGGAGGGAATTTTGTTCAGTTTTATGGTGGAAAA  
T  
GCAAAAACAGAGCCAGGTGCATAATCTTGAATCTGTGGATATCCCTGGAGCAGGACTG  
ANCCT

Sequence 352

NCCGCGGTGGCGGCCCGCCGGGCAGGTGTTGTTAACAACGCAGAGTCCCGGGAAGCAGTGGT  
AACAACGCAGAGTCCCGGGAAGCAGTGTTAACAACGCAGAGTCCCGGGAAGCAGTGTTAA  
CAACGCAGAGTCCAGGGAAGCAGTGTTAACAACGCAGAGTACCCGGGGAAGGCAAA  
TAGAATGAGAACCATATTATGTACCT

Sequence 353

CTCCCGCGGTGGCGGCCGAGGTACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
CTTACTTTGGGCATTAACTGCTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGA  
AT  
GGCATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTTC

Table 1

AAACCCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGACTTA  
AAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCC  
ATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGG  
GTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGGTTCTCCCAGCTC  
AC  
TTCCATAATGTCCTCCTAGGCTGCATTGGAATTTGTGTGTTGTCTAGACCCATGGCCAAN  
ACTGTCATTGCCTGTGAGGGAGACCAAGCTTACCCACCCAAGGGCTTTTG  
C

Sequence 354

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
GC  
CTTTAGAAGGTTAAATGCCAATATAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAA  
TAAGGCTTTGCTACTGTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAA  
TTCATTCTGTTACTCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAG  
G  
GGCAGAAAGATCATAAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACAGATATTT  
AAGTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAATTTGTGGGAATTTT  
T  
CCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAATGCTTCCAGG  
ATAGTATCATAAAACAAAGTCAAAATTAAGAAAAATCAC

Sequence 355

GCTCCCGCGGTGGCGGCCCGGAACCGCCATCTTCNAGTAATTCGCCAAAATGACGAACACA  
AAGGGAAGGAGGAGAGGCCACCCGATATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTT  
GGTCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGA  
ATGGGTACTCCAAAGATTCAGGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAT  
TTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAA  
G  
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGGTCT  
TTCTATCTCTTGACCT

Sequence 356

GTTGAGCTCCCGCGGTGGCGGCCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAGATGGTGTCTA  
CAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAACCTTTATGTACTGAGTAACA  
T  
TTGAAGGTTGTCTTTAATGGTGGGGGGTGTCTTTTCTTTTAACTACAGTGCTTGC  
A  
CAAGAGAGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGG  
GATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCTCCCCCATGTTTGATTCA  
AA  
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCTCCAGCAACTC  
AGTCTGCACAGGGCTCCCCGTTGAGGCTGCCTT

Sequence 357

TCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCATCTGACTTGCCAATGTAACGACACACA  
CGTTACGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCC  
AGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCT  
CCAGTAGAACATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCATTTTG  
T  
TCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAATCTCTCCATC  
T  
ATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCATCTGCACAAGGAGTATTCCA  
C  
GTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTACAGTCTGGTTTTAAT

Table 1

ACACAAACCAACAATTATAATACACAGGGATAAAAAAGTAGAGGCACTTATTGCATACC  
TGTACCT

Sequence 358

TTGACTCCCCGCGGTGGCGGCCGAGGTACTTTCTAGCAGTCTGTGGCCACTCCATACTC  
AGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTC  
TTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGC  
TGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCCCTC  
TGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCA

Sequence 359

CGGTGGCGGCCCGCCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTGATCCCCCTCTTC  
TCATCACTGCTGCTCCAAGTGGATTTATTACTCCGGGAATGGTAGAGAATAAAGATTTGT  
AGGAAAGGTGCTGAAGTCCAAGGAAGGCATTTCTTGCGCGTGTCTGGAACCGTGTATC  
CTTACTACATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGCCC  
CTGGAGAAAGACACTGAAATTTGGCCATGCAGGTCTACTTCCCGTAGGGGGGATTTTTT  
TTANNAANTGTTTNNGCCCNNTTGAAGGNTTTTAAANCNAAAANAAANTTT  
T  
NTTCCCCCGGGGGGGNNGNNTTTTTTTAGGGGGGAAAANGGNGGTTTTANTCCCCCN  
NNGGNAAANCCCCCNNTTTTTNTTTTTTGGGNGGGGAAANATTTTTNNGGGGTGCN  
CNGGNGNNTTTNNNNANAAANNAAAAACCCCCNNTTTNNTTTTTTAANANACCCNCNN  
AANNGGGGGGTTTTTTTTTTTTTAA

Sequence 360

TGGCGGCCGAGGTACCTACTGAAAACATAACACGCCAGAGGAAATTTGGCCAGTTATCCA  
ATTGATGAAGTANTAGGATAGAGCCAAACAATCTTTCAAGAGGGTGTGTTGTGAGATATG  
GTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAATCTNCCCACACT  
CCTGTGGAAGTGGTTGAAGTGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAA  
TCCGCCCTATATTTAGAGCATCTGGAGGAAATGGCANAAATCCTTAATCACCCAGAGT  
CTACGCTTTTCTGCACATACCAAGTCCAGTCTGCCTCCGACAGCGTACCTGCC

Sequence 361

GATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGA  
ATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGGTACC  
AGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCC  
GGGTCCCTGACCGA

Sequence 362

GAGCTCCCCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCTATAAATGTATG  
TGTCTGAATTTAGAGCTTAATAATGAATTATGGAACCTGATAATGATTGGATCAGGCA  
GACAACACCTGATCAGTCCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCCTG  
AGGTGAGGCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAATGT  
AACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAGTCTAGATTGTGGGACATTCCA  
CAAACCTTGCCCTGAAGTCTTTAATAATGTCAGTGTATGAAAGACACACCACACACACA  
CTGCACATCATACACAAACACCACCCACCACCCACCACTCAGACACACACAAAAGGGCA  
ACTCTAATCAATTAAGGAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTG  
ATTGGATCCTGGATTTAAAAATAAACAGCTATAAAGGATATTT

Sequence 363

GCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGGTACCAGCACA  
AACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 364

TNCCGCGGTGGCGGCCGAGGTACAACGCATGAGTCCCGGGAAGCATGTGGTAACAACGC

Table 1

AGAGTCCCGGAAGCAGTGGTAACAACGCAGAGTCCCGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGAAGCAGTGGTAACAACGCAGAGGCTTTCAGCACAGCCAGGGTGCCCGGA  
CTGAAAACCTCTTACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGAT  
GAAAGCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAA  
AAAAAANGTNCCTGCCCC

Sequence 365

TGACTCCCCGCGGTGGCGGCCGAGGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCAT  
TAGACAGTAACCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAAC  
ACTTGTTCCCCAGAGTTTCTATTTGTTTTNTTTTCTTTTCTGTGACTTATTTTCTATT  
TTCTTCTCCATGTAATTTCACTATGGCCCACTAATATAAACACCTGGAAATTACA  
A  
GGAAAAAAAAATTCTTCTCTAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGC  
AGTTATCAAGTTATGCTTATATAAGCATTAAAAATTCTCCTCTTTGACTACACACACA  
A  
CCACAGTGTGGTTCTAATCNATGGGAGATATCAAGTAATTTTTTAGTAACCTGAATTT  
G

AGGGACATTTCTCTGTTTAAGCATGTATGCAAACTGATATGTAATCCTGANGGTCCCAAG  
TCAATTTTTTTCTT

Sequence 366

CTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATCAAGCTGACACTCAG  
TATTAACCATCACAAAGGCGTGAGGACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAA  
ATAGTCCCACACCAAAGTCAGGATCAAATGATTCTCTGGACAAGCCACCAAGTCAATTCAA  
CTGAGAGAAAAGAAGCCTTTGCACCAAGTTGGTGCTGGAAGTTCTGGATATGCACCTGGATA  
AGTGAACCCCCCTCCGTCAACACACACAAACGTTAATTTGAGATGGATTGCAAAACATAAA  
AGCTAAACCATTAACTTCTTGAAGGTAACATAGAATATTTTGAATGTTATGATAG  
G  
CAAAAGTCTCTTAGGACACACAAAAAATTAACCATAAAAGAAGAAATGGCTGGGTGCA  
GTGGCTCACACCTTTAACACCAGCATGTTGGGAG

Sequence 367

CTCCCCGCGGTGGCGGCCGAGGTACATTGTGATTCAAGAGAAAAGTCACATGCAGGTCTG  
AGCTCCTCCAGCAGGCCCTTATGTAATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGA  
TGAAGTGGCTGAATGAAGTGCATGACAACTGAGCAAGCTCTCAGTCCAGGATTACAGCAC  
TGAGGGGCTATGGAAGCAGCAGTCTGAACTTCGGGTTCTGCAAGAGGACATCTTACTCAG  
GAAACAAAATGTAGATCAGGCTTTACTAAATGTTTGAAGTACTTAAACAAACCACAGG  
TGATGAAGTTTTAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTACTGCCAGAT  
ACCGAATTGAGCATACCACAAAAAAGTTCTCATTTTGTGTCCTCCCATNCCATTCTCCT  
C

ACTAACCAAAG

Sequence 368

CTCCCGCGGTGGCGGCCGCGGGCTGGTACAATGTGCCTGGCACCTTACAAGACACAAAT  
ATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCA  
AAGAAATACCTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCA  
TCGCCACAAAC

Sequence 369

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACGCGGGGTTTCCGGTTTGGGTGTGGCCG  
CATGGCGTGCTGGGGTGCAAGTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCA  
TCCGGCAGATGTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAACTCTTAAAGA  
GTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAG  
CCAGGAACAATTGTTCAAAGTTTCTTTGGAACATCAAGGAAGGAAATCCAGATTTTACTT

Table 1

TAAGTGAATGGGGGAGTCATTAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCT  
TCAAGCCACAATGGCCCTCACCAGAACCCAGC

Sequence 370

CCCGCGGTGGCGGCCGAGGTACTTAAACCAATAAAAAGTGACATTTGAATTTCTTTTAA  
AAGGATTTCCGAGCTCACAGTCAGCTTGCAGCCATTCTCCCGGTACCAGCAGAAACCA  
GGACAGCCTCCTAAGCTGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCCCTGAC  
CGATTCAGTGGCAGCGGGTCTGG

Sequence 371

CCCCGCGGTGGCGGCCGCCGGGCAGGTACGATTATTTTCAAACAAGCCTACGTCCCTGA  
CTAACCGAGTGGAAGGTGTGAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGAT  
AATCAAAGGAGAGAAGGTGAGATGCAATCACTGATGCATGCTAGTAATTCCTAAACCTTC  
GTTTTAGAAAACGATTGGATTTTCAGATAGATTGTCAGTAAGAGAATAACAAGTCTTTA

T

TTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTATATTTAATATCTGTTT  
TCCCCACACACTTGCTAATCTACATTTACAATCTTCTTCACTTTCACTTTGTCTGCAA

A

GGAAATCTACCCTGGGACAGAAANAAAGCATCTCTTTTTTTTCCCCCTGACCCTTGCCA

TT

TTCTCTCCCTTCAACTT

Sequence 372

GATTGAGCTCCCGNNCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGATGTCTCTTGTC  
AGCTGTCTTTTCAAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGA  
GAAAGCCTTGAACCTATCATCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTC  
CTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCCATTCTTCAGTA

A

GTCAACTTCAATGTCGGATGGATGAAACCCANACACATAGCAATTCAGGAAATTTGACTT  
TCCATT

Sequence 373

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAATGGAAACGCCTGGAGAAAGAG  
GATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCC  
TCACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACG  
AACCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGG  
ACACATTGAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCC

Sequence 374

TCCCGCGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTCCTCAC  
GGAGGCACTTGCGAGAGTTAATGGGCAGATGGAAGGAGATGGCAAGGACCAATCTGGGGC  
CGAGCAGGAACAAAAGCAGCAACGCTAACGGAAGGGCCGCGCCGGGCTGGTGGGCCAG  
ACAAACCAGACATGGTGTCTCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTG  
TAAATAGCCTCAGGCAGGTCCCTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGG  
AGCTGATGGCTCCGCCTGGGTTACTGCCCCTGTAGACTTCCAGTGGGACAGGATTGGGAG  
GTGGGAAGGACAGTGACATGGATGATCCCGGACCCTTTGTAGGTCTAGGCTAACGTGGTG  
TGNTTTGNGTCNTTAGCTTTTTAACCACAAAAAAGTTTAAAAAAGGTTAAANNANCNT

N

TNNNNNNNNNNNTNNAANNNNGGGTNCCTTGCCCGGG

Sequence 375

TCCCGCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTA  
CTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCA  
AACAGTTCTGCTATTATTGATCACATATTGCCAGTAAAGCAGTGGTGAATGCCGCAATT  
CCAGCCTATCACCTAAGAGACCTTATCAAAGCATGCTTCATGATGATCCAAGCAGAAGA  
ATTCTGCTGAAATGGCATTGTGCAGCCATTCTTTAGCATTCTTTTGCCCCCTCATAT

Table 1

T  
GAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGAT  
TATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTTAGAAGATGTAAAGAGGGAGGTG  
TCAAAAATATGGACCAGGTGGTATCTCTACTTTGTTCCAAAG  
Sequence 376  
GGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGAGGGGAGCACCGC  
AGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGTGTTCTTCCTACCTAGCCTAGT  
TTTTTCTACCAACCTAGTTCACCTAGTTTCCTGCCTAACCTCGTTAGATATCACTCTT  
C  
GCTGCTTCAAGAATACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTTGTG  
T  
GGCAAAAACAGNAGATCACATCCCATTTGTCTTTTNGTTCCTTGGCTGNTTAAGCANC  
AANAGTTTAGCACTTTAATTCATTGCTCTACCAATGGTTTAGTTTGAAATAGGGGTG  
G  
ANGTGGACAAGAAGNTTTTGNTTAATCCCTTCAAAGCCAATTNAACTTGGTTTTTGGT  
T  
TTAGGTNGAGGAAGGGCCANGNANTNGTTCAAAGGTAGGCCTCAATGNAACCGTTTACCC  
CCCN  
Sequence 377  
GCGGTGGCGGCCGGACGGAGGAGACGGTGCTGTGCTGTGTATGAAGACGGCAGTGAATGA  
CTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAGATTTACTA  
AGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGAAAGAACCATGACTGTATTCA  
GGAAGGCACATGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTCGT  
TGCTGTGTTATAAC  
T  
Sequence 378  
TCCGCCCCGGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGT  
ATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCCGCTGNTGTGTGCGCCAGTTGC  
CCGCTTNGTAGGACACCACCTCACACTCACTTCCCGNCTCTCTTTAGTTGGCNCTTTAGA  
GAGAACTCTTTCTCCCTTTGCAAAAATGGGCTAGAATGAAAAGGAGTATGCCNTTGGGG  
TTCGTGCACAACACAGCTTCCTGATTGACTCTAACTTCCAAATCAAATTCATTTGGT  
T  
GAAACANGACTTGTGTTGCTTGGATTTTAGNAAAATACACAAAACCCCATATTNCTGAA  
ACAAATTGCTTGANTCCTGGAGATNAAGGAAAGNTGGGATTTNGATTCCCCAAGTCCTCA  
TTGCTTAAGTAGGAATAAAATCCTTGACCCATGCNAACAACCAACTTNGTAAATTTNGG  
TGAAAAANTGAAAATTTTAANTCTTNTCCTTTAAAAAAAAGAAAAA  
Sequence 379  
GAGGGACTGCTAGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTG  
TGTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTNTAGAACAACTACTCTCATTTTT  
T  
ATTACGCCCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAANAGGCAAGACCTTCT  
GAAAGTTAACATCTTAATGATTAACAAACAGTAAGTACGCACAACCGAAGCCGTAGAGTCA  
CACTTGCAACAAAAGGTTACAANTATTGCTAATGGGGCTCTGTCCGGTNGTCTGTGTTCA  
GCTGGACCATCTATTCATCCCTCCTCCTTGTAGCTGTCATTTTAATTGC  
Sequence 380  
NCCGAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTTGTGACGTACGNTGAAATTGCAAA  
CGCTCAAACCTTCCAACACTTGCCTATACACTTGTAACCCAGCTTGNNAAGTGAGACAC  
GCATCAAAATCATGATGAACAATTGACCGGCTGCNTNGCAGTCAAGCAGTTGGGTTA  
Sequence 381  
CCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACAGCTACACCACCAGA  
AGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTGGAGGTAGCCTGGCCCGGNGGGCAC

Table 1

TGTGATCTCAGACTTCCAGCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAGCCAC  
T  
TATTTTTTGGTACCTGCCCCG  
Sequence 382  
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T  
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TCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCATGCACCACCAC  
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CAAGGCTGGTCTCAAACCTCCTGACCTCAAGGGNGATCCACCNTGTCTCAGCCTTCCAAA  
GNGCNTGGGGATTATAGGCNATGGAACCAATNAACGCCCGGGCCGGCAATAAATTTGTT  
ATACANNACTACCATGNAGTTAAATCTGCNANTANNATTGGGACCGAATGGTNTAATCCC  
TTCNTACTTCTTTAAATTNTCCCAANNNGACCTTCAATTAATAATAATAAAAAATTNGGA  
TCCTNTTTTTTTTAAATGA  
Sequence 383  
CTGCCGAGGTA CTACAGTCACNCAAATTCNGNNGGTGGNTACACGGCTCTCCATTCTTC  
TCTTTGGGTTTFAAGGTTCCCAAGNCAAGAGCTTTACCCATAATTAAGNNGNNTTCTGAGG  
ATNATCCGNTACATAAACNACACCTCCTCTNGAACCATCCTTGGGGCTTCATGGGGGT  
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GCCTTTGGTGNAACCTTCNTCCCCAAAATAAANAACCAAGGGACAACAACATTTGNGGT  
CANNNGGTNACCGAAANGAATCAATTTCAATTTTCCAATATGCNTCGAAAGGGGTTTTTC  
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NC  
AAAATTGGTCACCCCAAATCCTAATTTCTTTCCAAACCTTTCTTCTTCTTGCCCAT  
C  
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CN  
NCTCCTAAAAAATAANNNNGGAATNCCCCCCCCGGGCCTGCAAGGGGAAATTTCCNNTA  
NTCAAAAGCTTTAATCTNATTACCCCNCTCCAACCTTCCAAAGG  
Sequence 384  
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCA  
AGAGGACCATCTTGAAAATCCCCATGAATGAAGTGAACAATCCTGAAGGCCTGGGATT  
TTTTGTCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTC  
AGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTAG  
ACATCATTTATATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGT  
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AAGGACCAGGTGAAGATGTTTGACCTTTTTGATATGAAACAATTTAAAA  
Sequence 385  
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GGAAGGCATTCTCCTGACCAGCANGAGNGTTGATCTTTGCCGNGAAAAGCACGCTGNGA  
AAGATGGGNGCCGCCACCCTGTGCTTGNACNTANCAACAATCCCATGAAAGGAGGTCTAC  
NCCTGGCACCCCTTGG  
Sequence 386  
CTTTTGAAGGCCCCGNTCGCCCGGGCAGGTA CTCCCTGATAAAGGGGAATTTCCATGCCG  
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AGGGTGACAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCA  
GGAGTCTCTATTCTGGTGATAAAGATGGGCCGTGGCAGCCACAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGTACTCT  
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Table 1-

AACCATTTTTTCAGATATAAAGAGAATTACTTCAAATTNGAGTAATTCAGAAAAAAGTCA  
A  
GAATTTAAGTTAAAAAGTGGTTTGGACTTGGGAACAGGACTTTTATACCTCTTTTACTG  
T  
AACAAGTACCTCGGCCCGCTCTAGAACTAGTG  
Sequence 387  
TCCTGTATTGCCTTTTTAATCTTGCTTGTTAAGNACNTTTCAGGGATTGTCATCATTG  
A  
TCATCTGTAAATTGTCAAGNACTAAGGTCCTAAACCTTAATC  
Sequence 388  
CCTTCCCNCCNGCGAGNCCGCNNGGGAGATAAAAAATATCACCAACATAATATANCACGG  
ACTAACCCTTAAACCTTCTGCNTAATGAATTAACNAGAAATANGGGGGCAAGGAGNGCC  
ANAGCTAANACCCCTNAACCAGACGAGCTACNTAAGAACAGGTA  
Sequence 389  
CACGCCTGTAAATCTCAGCACTTTGGGAGGCTGAAGCNNGGCCGGATCACGAGGTCAGGAG  
TTTCAGACCACCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAANNGG  
GTGTGGTGGCGGGCACCTGTAATCCAGCTACTTGGGAGGCTGAGGNGAAGAATCGTTTG  
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CAGGGCAAGACTCTGTCTCCAAAAAAGAAAAAGGAAAAAGCCTTTCTTGATGCTG  
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AA  
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CGATACCCGTCCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTTGGTCC  
Sequence 390  
AGTACNCGGGGCTTTTCTCAGGCGGNGGCATGGCGGGACAGGAGGATCCGGTGCANCGGN  
AGATTACCAAGGACTGGGCTAACCGGGAGTCGGCCGCTCTAGGGGN  
Sequence 391  
CGCCGAGGTACGCGGGATGGGATTTCTGACCATTTGCCCTGCCTCTTGCAAAATAGGTCT  
AATGGCAGGATGGTGTCTAATTAAGGCTACCAAGACTGCCATTGTTCCAGGCTGGGCA  
GTTCTAATGGGGGCAGACAATAGTGCAAAAAATTTTACATTTTATCTTTAGAGTGTC  
A  
GGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGT  
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TAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAGTCTGTCTAG  
ACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATGGTTCCTCCATCACTGAG  
GACCTGACTTAAAGTTTTTCTATCTCACTTAAACAACCCTTTAACGCTCTCAACTTAG  
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CAATAATAAATTCCTTTTCATGAATTCCTTCA  
Sequence 392  
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GGGCGGTAATTACCGGTTTATCCACCAGGAATCAAGGNNGGATAAACGCAGGGAAAAGA  
ACATGTNTAGTCAAAANAGGCCAAGCNAAAGGCCAAGGNAACCCGTTAAAAAAGGCCCG  
CGTTGCTTGGCGGTTTTTTCATAAGGGCTCC  
Sequence 393  
NATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGACACAGGCACTCCTTTG  
TCTGGTAGAGAGGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGG  
GATGCATAAGTCCCCTGCCTCCCTTGCTCAACATGTTCTCCTCTGCCAGCCCAGTCAGC

Table 1

TTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTCTA  
TAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCCTATTTCTAGAAGGGATGAGGTGCCATC  
AAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGG  
CAGGCAGGTGGACATGAGGCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCA  
TGCCTG

C

Sequence 394

GTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAA  
AACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACGACTTCCACATTCCCTGGCCCAC  
TTGCTGAGCAACCCCAGGTTGGCTCTGTATAAGGACCCTCCCCTNCCAACCCCAACCCC  
AGAGTGCAGTGCAAATCAACCAACAATTTACTGGTGAATGGCAATCAAAGGAAACAGTT  
AAACACCAAAACAATTNCTTAAAGCCAAAAAATATTTTTCATGGAGTTGAACATTTTTCG

A

GTGTGTTTTTTTCAAGTGTAAGCAAGTACATTTTGTTCAAACAGAAGCAGCATCTAGG  
AATTCTGGCACTTGGGGTTCTAAGGGGGTTACAGGTATGCCATCATGGATTCTTCTCC

C

Sequence 395

NGGGGCGGGGCCCCCGGNGGGGTTANCCTTTCCATTTTNNANCAACCTTTTAAAGCCCT  
TGGGGAGGGNGGGGTTAANGGGGAATCCCTTTNAAAATTTTTTAAATNTNAAAAAGGG  
CCCCCATTAAGNAAATTTCCCAAGGTTTTTNAAGCCTTTTTTAAACCCCTNAAGNACCAGG  
GNAAAAAGGTNGGAAAAAAGGGCCANTTTTTTTTACCAAAGGGNGGGGGGAGNGGAAGGG  
CCAAANTGGGAAGGAAAAATTAANAANGGGCAAAACCAAGGAATTANATTACCGTTCCAAA  
AAAGCNTGGGGAACCAAGGGGGGCAGGAAAATTCAGNAAACCGTTGGTCTTGGGCCT  
TATTCAGCCTTTTTTGGTTTTTTTTTGGACCTTACCTTAAAGGGCCCCAAACCCCTT

T

TTTTTAATTTCCCTCCTTGGGAATNGGGGTTCTGGCCAAGNACCCCAAAAGGTTTCAA  
GGGAAATTTTTTAAGGGCCCAAAAAAGGGGAATTTTCCCCCAAAAAATNGGGGNATT  
CCCCCTTAATTAACCAATTCTTTCNAAAGGAAAAGGGAATTANCCAAGGGGGTTTTGGG  
AAGGNAAGGGGAAAANGGCCCCCNCCAAGNAAAGGGGNCTTTTGGGTGGGAATTGGG  
AAAACCCCAAAAAAAGGAAAAATTCNTTTTTTAAAAAAGGGAAAAANGGGGGGTTN  
TTNCCTTTCNAAAAAATTGGCCCAATTTNGGTTCCCAAGGTNAAGGNAATTTTTTTG

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GGGTTNAAAACCTTTGGGGGCCAANGGGGGGAAAAAAACCCCTTTGGGTTCCTTTGGG  
GGGGNAAG

Sequence 396

TGGGGGCCGGGCCCGGGAANGGTTACCCCGCGGGGGGGAGGCCTTTTNTNCCCTTTG  
GGCCCAGGGTNTTNCNTTTCCTCAAGNCAANGGAAACCCCTTTCTTTTNCCTTTGGGTTT  
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TCAAGTTCCTTGAAATGGTTCCTGGCNCATGCTTTCCTCGGGGCCCGGCTTCNTAAGNA  
AACCTAAGTGGGGAATCCCCCGGGGGCCTTGCAAGGGAAATCCGATAATCAAAGCTTA  
ATCCGGATAACCCCGGTCCGAACCCCTCGGAAAGGGGGGGGGGGGGGCCCCNNGGGGTAC  
CCCCAAGCTTTTTTGGTTTTTCCCTTTTTTAAAGTNGGANGGGGGGTTTTNAAAAATT

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GGCCCGGCCCGCCTTTTGGGGCCGGTAAAAATCCAATTGGGGGTTCAANTAAGGGCCTTG  
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CCAAAANTTNCNCCAACCAACCAAAACCCAATTTANCCGAAAGGCCCCNNGGGGGNAA  
GGCCCAANTTAAAAAAGGGTGGGTAAAAAAGGGCCCCCTTGGGGGGGGGGGTTGG  
GCCCCNTNAAAAATTTGGGAAAGGGTGGGAAAGGNCCCTTTAAAAAACCTTTCCAAAC  
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GGGGCCCCCCCCGGGCCTTTTTTTTTTCCCCCAAAAGGGTTNCCGGGGGGGGGGNAAAAA

Table I

AA

Sequence 397

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GGGTTCTNGGGCCTGGCTTNTTGGGGTAGGGGCACCGCCTCAAGTCCTGGAAATGGGTC  
CCCGCCAATGGNGTGGCCNGGCCCGCATCTTANGGAAACCTANGTGGGGAATCCCCCCC  
GGGGGCTTGCAAAGGGAAATTTTNGAATATTCAAAAGCTTAATCGGAATNACCCCGGTCC  
GNACCCCTCNGGAGGGGGGGGGGGGGCCCCCGGGGTAACCCCAANCNTTTTTTTGGTTTC  
CCCCTTTTAAAGTNGGAAGGGGGGTTTAAATTTGGGCCNGCCCGCCTTTGGGGCCG  
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AAAAAATTTNGGNGTNATTNCCCGGCNTTCAACCAAAANTTTGCCCCAACCCAACCAA  
AANCNCAATTTAACCCGNAANGNCCCCCGGGGGGGGAAAGGCCCAATTTAAAAAANGG  
TTGGGTNNAAAAAANGGNCCCTTGGGGGGGGGGTNGGCCCCCTTNAAAAAATNGGGA  
AAGGGTTGGGGAANGGCCCTTTAAAAACCTTTCAAACCCAANTTTTTAAANTTTTTGG  
GCCCGTTTTTGGNCCCGNCCNTTTCNAACCCTTGGGCCCCCCCGGGCNTTTTTNTT  
NCCCCAAAANGTTTCTGGGGGGGGGAAAAAA

Sequence 398

GCGGCCGGGTACAAAATTTAGAGGTTTCCCCTTTATCAACAAGAGACCCAGGTGCCAGCA  
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GACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAGTTGTCAAGATAATTTCTTATCTC  
TGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCTCTTGCTCCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACACAGTTTATGGGACTTTT  
CTGTGAACTACCTGAGGGCAAGAACCATGTNCCACTCCCTGCTTGCTCCTCAAATATTTT

A

Sequence 399

CNGCCGAGGTACNCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAGATTTTTC  
TTTTTAGGTCCAGGAGTAAGATATATCATACNGAAAATGAAAATTATAATCTTCTTGG

A

TTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTCTGCCAGCAAT  
AGCAATTGAGCTTACTTCTTAATCTTTAATAATGGGTCAACTTTTGCCACTACAACTT

C

AGGGGCCCCACTTAATTCATGGANTCCACCTTTCTCTGGGAATTTTACAACAGCAGCAGCA  
GGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCCTGGAA  
CTGCTCCCAAAATCAGAATACCCTTAACCAGGGAAGAGGCCAGTTTGGNCCCAAGGGA  
GCCCCAAGGCAAGGGCCAAGGTTNGAATCCCNTTAACNGNNTTTAAAAACAACCCGCCTT  
TAAGAACACAAACCCAGNCCCCCANGACACCGTTGAATGCCCTTATTGTTATTTCTTC  
CC

Sequence 400

GACAGACAGTGCTTGATGTTTATAAAAAATACAATGCCCTGGTAATGTCTGCATTCAACA  
ATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTGGTCGCTTCATAAACAACAACG  
CGGTTACCAAGATGGCCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTG  
ACTCCTTGTTGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAAGAACTAGAAGACACACTC  
AATCAAGTGATGGTTGTCTTCAAGTACCTGCCCGGGCGGTGAGCGGCNCGCCCGGGCAG  
GTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAGTGTGTGAAGC  
TGAATGATGGTCACTTCATGCCTGTCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTT  
CTAAAAAG

Sequence 401

CGGTGGCGGCCGGTTGCCTTGATGTACGAGCAATTAGGAGAGTCACGAGGATGAAATA  
GATGAACCCGACCATGCAGTTAATCACCAACATCAACTACTAGCCAGACGGGATGAACCA

Table 1

CAGCGTCACACAATACAGTGTTCTGTGTAAGTGTAACAACACACTGCAGCTGGTAGTA  
GAAGCCTCACGGGATACTCTGCGACAACACTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCTCGTGGTGTGCAACTGCAAACAGTAACCTGCTATGGCCAATTGTGAAGAGAT  
GGGAGTCTCCCCGATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCC  
GCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGCCAGAAAAACG  
TTTAAAAATTTGGAAAACCTTACTTTTTTTAATGAGCATTTTTGCATCAAGGGGGTTAC

A

GGGACATTAGGCTTTTTTTTT

Sequence 402

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACATATCCTCTGTGGGAAAAA  
CTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCA  
ATGTCCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAAT  
CCACACAGGCCGAGAAGCCTCACAAGTGCACTGAGTGCGGGAAGGGCTTTAGTGAGCGCTC  
CAACCTCACTGCCCCACCTACGAACTCACACAGGGGAGAGGCCCTATCAGTGTGGGCAATG  
TGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGACCCATACCGGGGA  
AAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACAACAGTTCAGTTCAGTGC  
TCACCGGC

Sequence 403

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATGAGGATTGAA  
CTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAA  
CTACTGTTCTCAAGATTAGAAGATGTNCACACTCTTGCATTACCTCCCTAAAGGAGGA  
AACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAATATGAAATGAGGAGAT  
GTTTTAGAAAGCAGGACANATCTACCTACCATTACTGGAATTAATGATCCTCTGGGC  
CCACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAA  
GACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGAAAA

A

Sequence 404

CCGCCCCGGGCAGGTACGGACGCCAGGGATCCGCGCCGAAGCTAGCACGCANCCTACCCA  
ACAGTCTACACAGCNCGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGATNGGGG  
AGCTCAACCTGTTNAGTAGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGCATT  
GTGCAGATACACACCCCGNAGGAACATCCCTCCTTATTTGTGGCTTTGGTGCCACAGGA  
AGAAGAGTTGGATTGACCAGGAAAATTNAGGTGACTTCTCCANGGCTTCCAGCTTGGTC  
TTTT

Sequence 405

CCGCGGTGGCGGCCGAGGTACGCGGGGGCGGCGGCGGAGAGAGCTGGCTCAGGGCGTCC  
GCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTCCATAAGGCTTTGCCTTTCCA  
ACTTCAGCTACAGTGTTAGCTAAGTTTGAAAGAAGGAAAAAAGAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGT

T

TTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAG  
CAGCAGCGATAGCAGCCGAGAGAGCCAGCGGGGTCGCTAGTGTCATGACCAGGGCGG  
GAGATCACAAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAA  
AATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTT

TG

CGGGGTNTGTGTTTCTTGGTAAGAACTCNATGGAAACAGGCCTCCTT

Sequence 406

TCCCCGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGTTATTTT  
ACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTA  
TGTAAGAAAAAGTTACCTCAGGGAGGTCTTCTGAGGTCTTCCAGCACACGGCATTGT  
TATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCACCTTCCAGTGGGAAG

Table I

GATGTGGAGGTGGAAAGCATACTGATGATTTTGTCCCCGTGGAGGCCCTAAGCTAATGTGT  
GTGTTTGTGTCTTAGCTTTCAACAAAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAA  
A  
Sequence 407  
GTGGCGGCCGGTGTGCTCATCGTAGCCTCGGGTCGGGGGATGCGTCTCCGCTTAGCGCC  
AAGATAGAACTTCCTCAGACCACCGCCGCCGCCCGCGGTACCT  
Sequence 408  
GTACCTCCCTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGAAAGGCATCCAAC  
CTTTTACCAAACCTAAAGTTTTTTCCGATTCAGTCGCCTCATCTTCAGGAAAACCTTC  
C  
TCTTCCTTCATATAGTCATGCTTGTGTTATGGTCCCAGCCTACCGCCATGTTTTACAGA  
A  
GCCCCGGTTCGCCGGGGCTCCCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAA  
TGACACATTACCTCCACACTCTCCCGGACTAGG; NGTCAACAGGGCCACAGGGTTGCTTT  
CTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAATTAAGCATGGAA  
TGACAAGAAAACANGGGAAAGAGTTACCCTGTCACATAGTAGGTTAACTTTTTAAGGGT  
TTGCAAGTAAGAGGNNTTTCGACCCTTTCNCTTGGCTGAGCCANATCNCGGGAACCTTGAG  
AGCTTTTACTGGGATTTTCAATNNAAAAAATTAACAACAATGTCAAACCTNGGGTTTGA  
T  
NATTGGNTTAAAGCCTTTTTAAGATTCTTTTTTAATAACATTTTTCCCCGAAAAAAAAA  
AAAAA  
Sequence 409  
TTTTNGGGGGGAGTTAAATAAAATAAGCATGTCTNCATCCTTTATTCCTAAACATTTAC  
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TCCCTTGGTTCAAATTTACCCCTTCTTGGGTTTCTNTTGCTTTTCAAGGGTAATNTAA  
A  
CTCTTCTCTTTTTANGTTTGAACATATGCAAGTGCCAAAGGATTCNCTGTAGTCTTTCC  
A  
AAGGGGGGGAAAGGGGGTNTATANAAAAAAAAAAAAACACCTT  
Sequence 410  
GGGCAGGTACTGTGCAGTAGTAACCCATAATTCTAAATGAGGATTATGGATTTTTCTGGA  
AGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTT  
TTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGGGTGTATATGTGTGTA  
TATATGTATAT  
Sequence 411  
GGTACGCGGGGTGCTGGGATNCAGGCACGAGCCAGTGCGCCAGCTGCCTNTGTTNTTT  
TATTAGCTGNTCTGGAAGTGNNGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCCA  
CACACTTTNTGAACTGGCCCGGTGAGGGGGGACATANCCATTTCTGTGCCCCCATCAA  
NACCCACCTATTCTGAGNGTNGGCTCCTCCCCTGCTTGAGTNATGGCCACANATCTTGGC  
TCGNNCTCCTAAGCTGCATGNTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCCAT  
TCTCCAGATCCTTGGGT  
Sequence 412  
GCCGGGCAGGTACTTAGAGTTTTCCAAGTATGTTCTAAGCACAGAAGTTTCTAAATGGGG  
CCAAAATTCAGACTTGAGTATGTTCTTTGAATACCTTAAGAAGTTACAATTAGCCGGGCA  
TGGTGGCCCGTGCCCGTAGTCCCAGCTACTTGAGAGGGCTGAGGCAGGAGAATCACTTCAA  
CCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGAC  
AAGAGAGACTTGCTTCCAAAAAAGTTACACCTAGGTGTGAATTTGGCACAAGGAG  
TGACAACTTATAGTTAAAGCTGAATAACTTCAGTGTGGTATAAAACCGTGGTTTTTA  
G  
GCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAATCCTTCTCTTCCCC

Table I

A

AATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCCTTTTGGG

Sequence 413

GCGAGGTACCTAGTCTANATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAATATTCA  
GGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTGTCTAGAGATAATAAAA  
GGAAGGTGAATTTTTAAAAAGACAAAAATAANGCTAGAAAAGACTGAGTGGAGAAAGCCT  
ACAGAATTTTCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGGAG  
GACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAA  
AGTGTCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAAACCCAGAG

Sequence 414

GGTGGCGGCAGGTACGCGGGATCCAAGATGAATGTGCAGAGAAAATAAAGAATCCAAAGT  
CATAGTCATGAGGACAGAATAAAGACATTTTATGCCTTTTTGTTTTGTTTTGTTTTCTT  
TTTGTGGAGAACAGGGTCTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATA  
CTGTCTCCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGCCCG  
GCCAGAATAAAGACATTTTAAACTAAAAAAAAAAAAAAAAAGAGTTTGCTTTCATTAA  
TCTTTTTTTCTTTTTTTCGTTTTTATTTTTTAGTTTTTATTTTTTTGAGACGGAGTC  
TCACTCTGTCACCCAGGCTGGAGAGCAATGGCATGGTCTCGGCTCACCGCAACCTCTGCC  
TCCTGGGTCAAGTGATTATCCTGCCTCAGCCTCCTAAAGTAGCTGGGATTACANGTGTG  
AGCCACCACGCCTGGCCAGAATAAAGACATTTTAAACTTANGGAAAAANAAAAAN  
NNTNGNNNCNNCCCCCNNAAAAAAAAAAAAAAAAA

Sequence 415

ACCGAAGACGAANGCCACTACATGCCCCGCGTACCTGCCCCGGCGGGCCAAAGGCCAAC  
AAGGGNAGTGGGGNCGGGCTGCANGAATTCGATATCAAGCTTATNGATACANGTTGACC  
TCNAG

Sequence 416

CCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCACGCCAGGGTCGG  
TGAAGGATCCCAAAATGGCTGGGCGAAAACCTTGCTCTAAAAACCATTGACTGGGTAGCTT  
TTGCAGAGATCATACCCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATG  
AGACCCTCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTT  
ACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAAGTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATACTGCCAGGTGGATGCCCGAAGAAAA  
GAAGATGTGAAATCTTGCTGAGTGGGGTGTCTCTCAAAGGCCAGGATTGTAGAATA  
TGAGAAAGAGATGGGGAAGATGAAGAACTTAATTCCATTTTGATCAGATGACCATTGAG  
GGACTTGAATGAAGCTTTCCAGAAACCAATTAGACAAGAAAAAGTNTTCTATTGGG  
CCTANCCACCCATTGAGAATTATTAATTTGAGTNCAGGANGGAACTTCTGGCCCTTTGT  
ATTACCCATTCTGGGCCTTTAAATATTATTTTCCAAAAAGGAAAAAAAAAAAAAAAAA  
AAG

Sequence 417

GGCGGNCCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGAGTTTGCTCTTTTTGCC  
GGGCTGGAGTGCAATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGT  
GATTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACCATGCCTGC  
CCAATTTGTATTTTAGTAGAGATGTGGTTTCACCATGTTGGTCAGACTGGTCTNGAA  
C  
TCCTGACCTCAAGTGATCCACCCNCCTTGGCCTCCCAAAGTGTTGGGATTACAGGTGTAA  
GCCACCGTGCCCGGCCATCAGTTGTATTTNTATATAGTAGCANATGAACAATCAAATGN  
GATTAANAAAAATGCCNTTTTAATAGCCTTAAAAAAAAAAAAANTNTTANTGAATAAN  
TTTAANCCAAAGGAGGGGNCAACCTTTTCNTGGGAAATCCAAACNCNTNTTTGGNA  
NGAATTCAAAGNAGGNTGAAANCCNCCCTTTTNCGGNGTTNANAAAAANANATTT  
TTANNGGGGGNCCCNCCCAANNATANTCCNCNGTGGGGGGCCCTCTAAAAANAN

Table 1

TTTTTTTTTTTTNTAAAAAAAAANNTTNTTTTTTGGNG

## Sequence 418

CGCGGTGGCGGCCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCTAGCC  
ACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTATNGNGAGGGAG  
GTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCCTGA  
TGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGG  
TCCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGG  
ATAAGAACAGAGGAGGCAGCAGCATTGCACAAGCCCCAGGCACAGTGGCAGTTAGGATGG  
CTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAATGTGATGTGCTTCATGTTTTCTC  
TGACTCATGGATCTGGTAGAGACCATAGACATGATATAGGACTAACTTGCCCATTTTTCA  
CANAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTGTCTGTTTTGAAAGGAA  
A  
CCATGTGCTTCATGAAACCTACAGTTGGCCAGAAGAATGNTCCTGCCCCGGCCGGCCGCT  
CTAAACTAGGGGGATCCCCGGCTGCAAGGAATTCGATTTCAAAGCTTATNGATTCCCG  
NCACCTCGAGGGGG

## Sequence 419

CGCGGTGGCGGCCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGA  
AATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGC  
CACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAG  
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTCTCCTCTCACCTN  
C  
TNTGAGCACAGCTTTCACAAAACTTTGCATACCCCGCGTACCTGCCCCGGCGGCCGCT  
CGAGGTACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAATG  
AGGTCCCTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTC AACCCGTGATATTCTT  
TTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCCAACTAAAAATTCATAG  
CAAAGAACTCCAAGGCTCCAAGAGATCCACCTTCTCATCATGCATCCACCTTCAATCATT  
TCANGGGGCANGGAGTCCAAGGTGCCACAAAGAGNGGTCTTCTGGGAAGATGGAGCATG  
TACCTCGGGCCCTCTAGNACTAGTGGAT

## Sequence 420

GAGGTACGCGGGGGTTCGGCGCCATTTTGTCTCGGCAGCGGTGGCCCGTAGCTCCATCGCA  
TTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTTCATCAGGTAGATTGGTTTTGT

## Sequence 421

GGGGCGGCCCGCCCTNCCCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTACAGCAACAATGAGAGAATTA AAAACTTCT  
TCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACA  
CTTTCAACAAACAGCAGNGGCTTA ACTGTATTCTGTCAGCCAAAGAAACAGTTTTGTGTG  
CTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGA  
GCAGAGAGCTACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACNAGTGAGGTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACT  
CTTCTGTGGAAACAGCAGGCACGGTGAAAGTAACCGTCTGACAGAAAGCATGTGCACTT  
CNGGAAGCAGGCCTGCATCTTACCTGTACCTGCCC

N

## Sequence 422

ACTTCCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGAATGGGGAATTCTGGCCCTAC  
GTGCATTCACAGGCAATGATGGGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATAT  
ATTAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAAACCTATA  
AGGTCCTGGATAATTTTTGTTTGATTATTCATTGAAGAAACATTTATTTCCAATTGTGT  
GAAGTTTTTGACTGTTAATAAAAAGAACTGTCAACCATCAAAAAAAAAAAAAAAAAAAAA  
AGTACC

Table I

T

Sequence 423

NCCCGCGGTGGCGGCCCGAGGTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCCTA  
TGTGAAAAGCCCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACATGGTAATGGGA  
AGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAATTAGACAGGGGGAAGTAAAA  
TTATCTTTTTGCAGATGATATGACTTATATGTATTATAGAAAACCCTGGGCCAGGTGCA

A

TGGCTCTTGGCTGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTC  
ANAAGTTTGAGACCAGCCTGGGCAACACGGTGAAACCCCCCTCTACTAAAATCCAAAAA  
AAAAAAAAAAATTAGCCCGGGCGTGGCGCATGCTAANGCANGGAGAATTGCGTGGAATC  
TGGGANGGTGGANGNTGCANTGAGCTTGAAGATCTCCCCCTGNACTTCCAGCCTNNGGGG  
ACAGANCCAAAGACTNTTTNTTCAAAAAAAAAAAAAACCGGGGGNGGACCCCTCAAGAA  
TTCNCCCCNCCCCCCCCGAANCCCTGGTTTGAAATTAATAAATGGGGTTCCGCCAAANA  
AAGTNCCNGCTTNTTCAATCAACAGGCCAAAAATTCCTTGTTTTAAANCCCTGCCCTT

T

AAAANTTTTAAAAAGGAAACTTNGNATTCCTCGTTTCTTTTTATTGCCTCCAAAAAAA  
AAAAAA

Sequence 424

CCGCGGTGGCGGCCGAGGTACTGCCGAGCCGCTCCTCCCGCAGCTGTGCCGCTCCTGT  
CCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGC  
TG

GTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTGAG  
TGTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACCAAGTTT  
GAGGAGCACGTGCAGAGTGTGCATATCGCAGCTTTCAACAAGATCTGAAGCCTGAGTGTG  
GGTACCTGCCCG

Sequence 425

CCTCCCGCGGTGGCGGCCGAGGTACTAAGTGGTTAAGGATGGAAAAGAGCTAACAAGTGA  
CAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGATCATCAATGTAGC  
GCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAGAACCCCTGTTGGCAAAGACAGCTG  
CACAGCTTCATTGCAGGTTTCAGGTTGGTTGATTTCTTGGGCTTTTCCTTCATCATTAT

A

ATAATGTAGTTCTGATTTTCATAAATGTATATGGGTGTTACATCTTCTATAGGATAAC  
ATGAGTCCGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCCACC

Sequence 426

CTNCCGCGGTGGCCGGCCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAAA  
CCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCTATGAATGTAAGCAA  
TGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGG  
GAGAAGCCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACT  
GTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGATGTAATGAATGTGGGAAACC  
TTCCGTGAGAAAGTCGGCCCTAATTGTTCCAGAGAACTCATATAAGACAGAAACCCTAT  
GGGATGTAATCAATGTGGAAATCTTCTGTGTGAAGTCAAAACTCATTGCACATCATAGA  
ACACACACAGGGGAGAAACCCTATGA

Sequence 427

CCCGNGGTGGCGGCCGGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTTATTA  
GCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGG  
CTCCAGTTATATTCAGTGGAGAGCATAATCCCACACGGGTATTATATAAATACAGAGCCT  
CTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCTTCACAAGG  
TAAAACTTAAAAAGCCAACCAAAACAAATTGCTCTCATTCTACTTTTAATTGGGCCAAAC  
AGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAAAAAACTCTGTTTACATT

Table 1

G  
CCTCCTCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAA  
GAAAGAGTGAGCTGCTGGTACCTGCCCCGGCGGGCCGTCTAAAACTAGGNGGGAT  
Sequence 428  
GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAATGTTGAGCTTG  
CGGGGCANTNNGCAGAGAAATNCCAGGGATGTTCTTGAAGGCCTNGATGATACCANTATC  
CTCATTATAAGATGAATGCACGGGGCCCNNTTGGCTGGATACCGGCNAACCGGNTTCTNA  
TTNTGCCTNTGNCAGCTCTCATTGCTGAGAGGCATAGACCTTTTTGANGATCATTCCAA  
NGCTATAAGTCNTCTTAAGGAGCAAAAACCAGCTTCTTGGTCTNTCTTGAAGNCCTTCA  
ACTTTATCTTTCAACTACCAAAGGGAAGGTNCAGGAACTTTCTCAATAACCGANGGAC  
CTTTAGGACATGAACCAGGTGNTGNTAGGGGCTGGAGGCCAGCCAGGGCAAGAAACA  
NAATGGCCGATANCCGTTTTTGGGGTTCGCGGTACCNTTGNCCCGGNCGGGGCCGGCT  
TCTAANAAACCAAAGTGGAANCCC  
Sequence 429  
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGCTTTT  
A  
GCAAGTTGTGAATATACTTGGGCTTTCTGTCTTTCCCCAAAAGCAATTTGGGATTATTT  
T  
CCTCCTTTTTTTTCTGCATTTTCATATAAATACTGTCAATTCATACACAGTAGCATCTT  
CTGCAAGGGCCTTCTGGATTCCAGTTGGTCTGTTTCATGGCCTGCTTCTAGCAGC  
TT  
CCCTCTGAAGGCTTTCACTCACAGAGGTCTCATCATCATCAGAATCATTCCCAAACA  
CTGATGGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAATAAGCCCAT  
ACTACCTGCCCCG  
Sequence 430  
GTGGCGGCCGAGGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTT  
GAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAA  
TAAGACTCAAAGTCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTC  
AATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGTTGGGAAAAACACC  
TCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCC  
AGAGAGTAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTGAATTCTGAACA  
CTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTT  
CAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCCAGCCCCAGGCTGCAGCCCATTG  
CAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTTGAAAGGAC  
Sequence 431  
GGTGGCGGCCGAGGTACCAAAACAACAGCCCTCCAACAATGATGACCAGTGGA AAAACA  
ATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTGTGGCGTAAATG  
GTCCATCAGACTGGCAAAAATACACATCTGCCCTCCGGACTGAGAATAATGATGCTGACT  
ATCCCTGGCCTCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCCGGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATT  
GCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAAGCT  
ATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGCT  
TGTGAGAAGAATGAGAATTTGGCTGCCAATTTCTTCTACAGCAGAACTTTGATGAAGAT  
TGA  
Sequence 432  
GCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTC  
TGCGTTGTTACCACTGCTTACTGCGTTCCCAGCATTTCTTTTCTTCTCGTTTCCTGT  
A  
GATTCCGGCTAATGGTTTCCCCTGGCATTGACTTCGTGATGTGTAACAGTCTCTT  
CC

Table 1

TGAAGGGGGAAACGCATTCCAGAGCATTTGTTCTGGGCTCATGTAGGAATAGATCTTTGAC  
TGCCCGGTAAATCCCGGTACCTGCCCG

Sequence 433

GNGGTGGCGGCCGCCGGGCAGGTACAAATCTACCTCCCCACCAAATGTCCTTAGAGGGC  
CAAAGATGGCCTTTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTGAGACAC  
G  
GTTTCATTCTGTCAACCCAGGCTGGAGTGCAGTTGTGCATTATGGCTCACCACAGCTTGA  
ACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGC  
ACACCATCAAGCCCCGGTAATTTTTGAAATTTTTATAGAGACAGGATTTTACCATGTT  
T  
CCCAGGCTGGTCTTGAATTCCTGGGCTCTAGTGATTCCTCTGCCTTGGCCTCCCAAAGTG  
CTGGGATTACAGGCATGAGCCACCACCCCCACCTGTCTATTTTACAATTTTCTTTGAG  
CTCTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAAACTGCTGA  
CTCCCTTTATCTTTTCCATAGCACCCCAAGC

Sequence 434

NCGCGGTGGCGGCCGAGGTACTTTTCTAAAGCTCATCCACTCTATCATTTAGATATCCA  
ATTTTCAGAAATGTGCTCAACATTGGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGG  
AG  
TCTCCCAGAAGAATTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCTC  
AAGGCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCAC  
C  
CCCTATGAAAAATAAATCTTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCA  
TATTTTGGAGCTCTTAATTGATGTCATATTATTTTCATCATATTTGTAAATACATCTTTG  
ATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGG  
AGAAGTAAATGATTTTTTAGATACTATTTTAA

Sequence 435

CCCGCGGTGGCGGCCGCCGGGCAGGACGCGGGGTTGCTCAAACCGAGTTCTGGAGAAC  
GCCATCAGCTCGCTGCTTAAATTAACACAGGTTCCATTATGGGTGCACTTGATGGGA  
AAGTCATCATCCTGA

Sequence 436

GTGGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCAGCCAAGCACTG  
TCAGGAATCCTGGGAAGCACCTCCAAGTGACTGCAGATCTGGAATAATAAGTGNGGGTA  
GATCTGCCCATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAGGAATTGNGGTAGGG  
ATCTTNTACTCATCCTTGGCACAATAAGAATGGCCAATGCCCTTTCTAGTTGTTGGGGG  
AAGGTCTTTGAAGGCACCATTTNCCCCATCCCCCTGGGGGAAGAAATGGGGTCCCTAAG  
GTAACGCCANGGTTTTTGGGGGTTNAATTTGCAAAAATCCCCTTTTTNGNGGGNTANNA  
CACAAATGGGCTNGGCAATTTNTTTNCCCCAATTNGNTCAAAANGCCCAANAAAAT  
TTTTTAACCGGGTTGGGGGGGGGCAAAATTTTTGGGCCANNTTGGCAATTCNCNGGG  
ANAAAAAATTTCCCAANGGGGCCNGNNGTTCAANTTTCCTTNTAACCCCGTTTNAACCT  
TCNCCCCCNGTTTNTTTTTTGGANCCCTTAAAAAAAACCATTTTTTTGG  
GG

Sequence 437

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTTATTTTGCTT  
T  
ACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGGTTAACATAGCACATGGAGAT  
AATCATCTGAAAGTTATAGGGCACTGCCACTGCTGAATCAAGAGCATGCCCAATATTTGA  
GGTGGCTCTGATTTCTGGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCTGCC  
CG

Sequence 438

CGGGCAGGTACGCGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCC

Table 1

AGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGA  
GGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAACAAGTGAGAGAGCAATGCCGAGC  
AGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCCGTGTATCC  
TCTCCGATCACATACAGAAGAGGATTGCACCGGAGGGAGCTCTTTGACTTCCTTGGCAT  
GCCGAGGGGACCCATTTGCGTGGGCCCAAAACNTCTTTAAACAACCTTGGAATAAAAT  
GTGTGGGACTTTAAATTTACCCCCAANGTTCTTTCANTNAATTCTGGGGGGCATTCAAG  
AAATAATTTTCTCTTTATTGGGGTNTTTGGGGAATNNTAACCCCTTCGGGGCCCCGG  
CT

TCTTAAGAAACCTTGNTGGGGGANTCCCCNCGGGNCTTGNAAGGGAAATTTTGGAT  
ATTCTAAGGCCTTAATTCTNGATTACCCCGNTTCTAANCCTTNGAANGGGGGGGGGNC

Sequence 439

CGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCTNT  
TTGATCCCATAACCATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAA  
AGAAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGGAGGCCGAG  
GTGGGCAGATTACTTGAGGTCAGGAGTTCAAACCAACCTGGCCATCATGGTTGAAACCC  
CGCCCCACCAAAAATACAAAAAATTAGTGGGGCGTGGATGGTGTATGCCCTGTAATCCCA  
GTCTACTTTGGGAGGCTGAGGCCAGGGAGAAATCNGCTTTGAACCCAAGTAGGCAGNAGG  
GGTNGNCATGTTGAGCACGAGTATCGTTGCCACTTGCACTCCAACCTGGGCCGACAGNA  
GTCAAGTACTCTGGGNNAANAAAAANATAAACAGGAAAAAAAAGNGAAGGNAAGGGAA  
GGGGGGAAAAGAAA

Sequence 440

GGGGCGGCCGAGGTACGCGGGATGTCTAAAATATCTTGTA AAAAGTGTTAAATAAACAA  
ACCCAGTCAATTA AAAATTTT GACTGTTATTGAGAAAACCTCAATGAGGGAAAATAAAG  
ATCTATAAAGGTCTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGC  
TCACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGAGTCCAGGA  
GTTTAAGACCAGCCTGGGCAACATGGCAAAACCCTGTCTCTACAAAAAATTAGCCAGGTG  
TGGTGGGACACGCCT

Sequence 441

CGGGTGGCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTT  
ACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCCTTGAANAAGNNCCAGGTGAA  
ATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATCTTGGTGACCTCACTCATGAC  
TGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAA  
GTCTTCCTGTCTGCCCCCGCTACTGTTCTGCAGGTTAAGGCAGGACTGGAACCTCTCC  
ACAGCTTGACATAGTTTTCAGATTCAACACTA ACTTCTCCGAGTTTAAGATGTGCCTGG  
GCAGCATAAAGCTGTGCTTCTTTTGTTCCTTGCCTTTAAAAATGATCTTTGCTAAATC  
C

AGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTTCTTGAAGAGAC  
TTGGTTTCAAGGACTGAATCATTTGGCAT

T

Sequence 442

TGGCGGCCCCGCCCCGGGCACGTACTTTTGCTGCTGAGGAATGGAATCAAAAGAACGTAGT  
CTCCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTNGNGCNNGTACTCCCCCA  
GCTTCTTGCTCINNACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAAAAGGG  
AAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTAT  
GAAATATGCCTCACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAAGTGN  
GGCAAGACATGATTAATGAATCAGAATCCTGTTTCATTGGGTGACTTGGATAAAAGACTT  
TTTACTTTTANAAAAAAAANTGTCAANAAANANGTTCCCTNGGCNCGGCTCTAAGAACT  
AGTGGGATCCCCCGGGGCTGCAGGGAAATTCGNATATTCAAAGCTTATCCGATACCCGG  
NNGAACCTCCGAGGGGGGGGGCCCCGGGNAN

Sequence 443

Table 1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAGGAATAGAGTG  
AGTGGCGACTCAGATTGTTTAAGCTATCTCTGAACCCATTCTACTGCGTTAACTATT  
T  
TATTGGTTTCTAACTACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCAC  
A  
GCGTTGTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCG  
CGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACTCCTCCTTTCT  
CCCATTGTTCTATGAGGTGGGTGGGACTCCAAAACCCGTAGCTCCTGCCCTACTAGGC  
CACTCTACCCATT

Sequence 444

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTC  
GTAAGTGAGACAAGCCAGTGCAAGTTTTTTTTTTCTTTNNTTTTNGGCTTACCTTCT  
T  
GCTTAATGGAATTGTTATGGCTAAGCACATAAAGGCCAAAAAGGAGTTTTTCAAACCC  
AGCAAATCAAGTGCTTGGATTCTGAAGTCCAAAAAGAACTGCACTTCCCCTCTTAAGT  
AAAACCGAAATGAGTTTTCTTAGGTAAATGTATTCATCAAGCCCAGNATATAGAAAATAA  
AACCCAGGTTANTGGTGNAGCCGTTTAGGTCACCTGCATCATTTTCCAGGGAAAGATTCA  
AACCAAAAATACCAGTNCCCAGNCCAGGACTCACAATGTGTTGGANTAATATTATTATTA  
AAAGCAAAAGGAGGCCCNCCCCACCAAAGCCCAAGCAGCTGGGNTGGAAAATAATCAA  
GGCCTGGTCCCACNCCCGTNGGGTAATGCCCAAATTCGGGGGGGAAAAATATACCTNCCC  
TTTGGNAAAAAACCTTGGGAAAGAAATCTTACCCTTNGCCTTGGGGAAAAAAA

Sequence 445

TCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTACTAAAATGACTGCATTCTTTGGATTG  
CTTCAGTCTATGGTTCAAGTCACTAAAGATTCATTTTTGTTGAGTCCTTATGAGAAACA  
G  
NAGTATGAATCTTGACGGTTTCTGCCCGTCTAATGGCAGAGCTCTCTGACTTGGGTGTA  
TGCTACCAGGCTGGGTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGGTGAAGGTTCA  
ATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGAATCTTGCTCGGTATATGCC

A

CCCAGTGGGTCAAGTCTGGGACCTAGGTGGTGAGCTATCCCATAGTTCATTCTCAAACC  
GTCTTTACTGCACTGTTTAGGGTCAGATACNCATTATATATACNACTTTGGGTGAGCT  
CA

GGAGTTTATAAGCTTTATGGGCTTTGGTGTTTTGATTTATAAACAGGAGTTTATNGAAC  
T

TTATGGGGTTTGCTTCCTCTTTCTGCCCAGGTTCCCTGGG

Sequence 446

GGTGGCGGCCGAGGTACGCGGGGAGACACAACCTTCCTGGGCTTAGATATTTCAGAATATC  
ACAACTAACTCTTAAAAATTTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCA  
GCACTTTGGGAGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAAACCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAATGCAAACATTTGCTGGGCTTGGTGATGT  
GTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTAGAACCCATGAGG  
TGTAGGCTGCAGTGAGTCATGTTGCACCACTGCAGTCCAGCCTGGGTGACAGTGTGTAT  
TAGTTTGTTTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTA  
ATTGGNCTTACAG

Sequence 447

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGAC  
TTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTGNGCTGGNCGA  
AAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCGGTCTGATTCTAATAGNA  
GAGCCCGGGCTTCACCNGTTTTGGGCTTCCGATATTAATAAGACCAAGCTGAGTCTCC  
TCCAATTGGAAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATGT  
CT

Table 1

GGTGTTCCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAANAAAGAAAACCTATTA  
T  
CACNAAAANTAAGGTNCCCTGCCCCGNGGCNNGNCCGCTTNCTANGAACTTAGGTGGGAT  
CCNCCCCGGGCTGCAAGGGAAATTANGNATTATCCAAAGCCTTATTCGAATAACCCGTC  
CGAACCCTCANAAGGGGGGNGGCCCGGTATACNCCAAGCTTTTTGGTTCCCTTTTA  
AGTGGAGGGGTAAANTGGCCGCCGCTTGGGCGTAAATAAATGGGACNAATAAGCCTGG  
TTTTCCCTGNGGNGGANAAATTGGTTNTCCCGCCTCACCAAATCCCACCACNAAACAT  
TACCGAAGCCCCGGGGGAGCCAATAAAAAGTTGGTANAAAGCCCTGGGG  
Sequence 448  
CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTAGTGTCTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTAA  
G  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGGC  
A  
GAGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATTTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGCTGCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGAGTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG  
GTCACTGG  
Sequence 449  
CGGCGGCCGAGGTACAAAAAGCAGGGGCCAGCCCCAGCTGTTGGCTACATGAGTATTTA  
GAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAAT  
CAGCTTCTGGAGGAATGCATGTCACAGGCGGGACTTTTTCANAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAAACAGCCCAGGACTGCCGAGACTCTGGCCGCCGAAGG  
AGCCTGCTTTGGTACCTGCCCGGGCGGCCGCTCGATCTCCTTGTGTTCAAGCAACTTCTTG  
CGGTAGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGTACCTGC  
CCG  
Sequence 450  
NGGTGGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCT  
GGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGCTGGGATGTAGCCAGGA  
CTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGACCAGTCCTTGTGAAAGACAAGTCTGA  
ATGCTCCACTTTTTCAATTCTCTCTCCATTTCTCAGTAAGTCAACTTCAATGTCTGGATG  
G  
ATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACG  
TGAGTAAACCTGAATCTTTGGAGTACCTGCCCCG  
Sequence 451  
CGAGCGGCCCGCCCGGGCNGGTACAAATGCGTTTANGAAATGTTAGTATAAGGCTGATCT  
GGACCCAAACTAAAACAACGTTAATCCTCTTCAAATCTAATTTAATATAGGGAATAAGAT  
TATTGAAAAAAATTTTTTCTGATTTTCTTTTCTGAAAGTTTTTTGTAGAAACCA  
TGGTAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGCGAGGGGAATACAAAAAAAAT  
CCCTTGATTTTAAATATACTTGAATATCAAACCTCAGAAAGAGTTATTTTGTGAAAGA  
GGCAAAATTGGTCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTACTGAAATTATGG  
TC  
CAGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAGGAACTCTG  
AGGTGGTGATTTTCTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCT  
TCCACAGATCCCAATTGAATGAGCGCCATTTTGCATCTTCTGAAAGAAATTTAAA  
Sequence 452  
GGGGCGGCCGCTAATGTNAGAAGTTAAGTNAGAACCTATATTGTACGAGGAACAAAAGCC  
AATCAGTGTCCTTTTTGTCTTTTTTACATAAACTTTTACTACAAAAATNATATATGGA  
TTTTGAATTTCCAGTCAAACCAAATTGTAAACTGTTTCATTTGGTCTATATTATGTAT

Table 1

ACATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGATTTAATTT  
CCTTTNGGNACCCCCATATNTAGAAGNNTCTTCATAANTTAATAAATAATCTAGGGCCAG  
CATTATGTTTGCTAGACCTGGNTTTGGCTCAATACTTAAAGTTAAAGTTTCTGTCTTT  
T  
TTCTTGGACTTGAAACTGCCTANAGCGTCAGCCTCTCTGTTATTTNTNTCTATTTNCTT  
T  
TTCCCCATCAGTCTTTTAGCCACTTGAAGCCAAAATCTTAGTTTCTGTCCTAGTNGA  
T

AAGAGTAAAGGGGAAGGAG

Sequence 453

ACGGATACCCTGTTCCGCCTTTCTCCCTTCGGGAAAGCCGTGGCGCNTTCTCATAGGCT  
CACGGCTGNAAGGTAATCTCAGNTTCCGGTGTAAGGTTCTGTTCCGCTCCAAGNCTGGGCC  
TGTTGTGGCACC GAACCCCCCGGTTTCAAGCNCCGAACCCGGCNTGCGGCCCTTATCCC  
GGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG

Sequence 454

NGAAGGCGGACGCCCCGNCAGGTACGCGGGGACCTTTNACGGGCGGGGGGAGCTGAGGCT  
CCTGNCGNATCTNTGATCCTTGACCCCTGGCAGGAAGN'TGGTAGGGGGNACT'N'AACGG  
GAGGNCTNCACATATTGCAGAAAAGAAACCACTTTGGNGNGTAAGACTTGGAAGAAAGTA  
ACCGGTCACTTTGGAAAACAGGGGTGGGGAAGAAGCTGCCTCTCTTTGAACCTNTTCCN  
AGGGACCAANTCTAACCCAGGTGAGGNNAACNTGGTNGATGTAAAGCCGGTGGCTTTGG  
AGGACAGAATCATCTAAGTGGGAANAAGATACTAGGAAGGGNGCTGGGGGGANTACCA  
TCAAGAGGGAGGNNGGGATNACCTTCAGGCCGGGGGCTTNCGGNNGGGATGAAAGAAGGA  
ATGGGNCCGGACAGGTTTGNNGGTNGGAGGGTATGAAGGCTTGGCNAATGGTGGGGAAT  
TTGGTAACNTTCGGGCCGGGTTTTTAGAANCTNAGGGGGGANTCCCCCGGGCTTNGGA  
AGGGGAAATTTTCGANTAATGCAAGGCTTAATANGAATTACNCGGGGGGACACTTCGGAG  
GGGGGGGG

Sequence 455

CCCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGATCTCTGTCTTTTGTTCCTCA  
CCTGTCTGCCTGTCTCCTCTCCTTTCTGCTGGGGGGACTGTCCAGAAGACATCATCGT  
CCAGTTCCTCTGCATTTGAACAGCTGTNCCCCCACCCTCAATACCGTTTAGAGCAGAAG  
CCAGCAAATACTAATCGGTGAGGGACACGATAGAACTATTTTCGGCTTCATGGGCCACA  
CAGGNCTTCATTGCAAGCTCCTCAAATNTGCTGTTTGTAGCTAAGGAAAGAAACCATAT  
ACCNTGTGTNAANCAAAAATGAAATATTGGCNTGTGTGCCAATAAAAAACCTTATTNACA  
AACATTAATNGAGTNGGGCNTGGATATGACTTCACNANTACTGGTTAGTTTTGACAACCC  
CCCTGGNTNCTAGNAGTTAAAAATCCCAAAAACCTNCTTATTAGTCCCTCCC

Sequence 456

CGGCCGAGNACAACATGACATTTTAAACCAATCCAATCTAAAAATGTTGCCAGAATCCAC  
CTGTGGCCCNAAATCGNGTNTTGGTTCTTCTACTCCNCTGCAGANGACCAAAACCTG  
TCCCGCTGCCACTTTCCTCACTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCAC  
TAAAAATGCCCCAGGAGAATAGGCACCNGGCTGGCTTGCCAAAGGGTTTNGGGTTTTATT  
GCTTCTGTTTTTTCTTTTCCCCGACAGCACAAAGAANGTAAAGGGGCAGTTAATTGGAC  
AGAGTGTTATTTTAAACATCTCTAATTGTAAATGNAATGTGGTTGGTTTGGGTTTCTA  
C  
TGCAATTGGTGNGAAGCCATGCCGNGGGGAAAGAAGAAACNTGACCCCAAGGNTAATTG  
AAAATNGGGAGNCCCCCTTTC

Sequence 457

NCGATATTACTGTGCGAGAGGTAAAGGATATAGTGGCTACGATTACNGCCTCTCT

Sequence 458

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAAAACCTACAGACTTAGTCTGGTGGA  
CTGGACTAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGA

Table 1

GCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGC  
TGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAA  
GGTTGGGAAAACACCTCATTGACCTTGCCAGCTGACCTTCAAACCCTGCATTGAAACCG  
ACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACCGACATTCCAGAAGTTAATC  
ATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATC  
ATCTGGAAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAG

Sequence 459

GGCGGCCCGCGGGCNGGTACGCGGGTCTGNGCTGGTTAGTGAAGGCTTTGTAGCTGAGC  
AGTTTCTAAATAACACAGCCACTCAACTGACATACCATGGATTATGTGAACCTAACTCAA  
CGGTTCAAGGAAGGAGAACTTTGTGTGTTCTTTCCGAATAATCATTTTAGCACCATGACCA  
AATACAAGGGTCAACTGTATTTGTTGGTAACGGACCAGGGGTTTCTTACTGAAGAGAAAG  
TTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAAATTTCTGTGACTCAGAAATTC  
ATCTTCGACCTCCTTCAGATCCTGAAACTGTATACAAAGGACAACAAGATCAGATAGATC  
AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGG  
AACAAATCCCGGAAGGAATCAAGTGATTGGAAGTAGCAAAGAACT

Sequence 460

GGCGGCCCGGGTACGAATGTGCAAAATTAAGCATGGTAAACTGATATTTACATAAAATATCA  
AACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGATCC

A

AGAATATCTTTCCCCCAATGGAGAAGGTATTAGAGGCTAAATTCGACACTTTAAATG  
ACACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTT

TA

TGATCCCGCGTACCTGCCCCGGCGGCGCGCTCGAATAGACTTCAGGGAAACAACACGTCTT  
GAAAGAAACATGATTCCCCTCAAGCCACAAAGGATTTTCTCATCAAGTGTTTTACCTCT  
GCATTAGATTTGGACACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAG  
TCTCTTCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTCTAGCTGATAA  
AAGTCACAAGACAGAAATAAGCTAAGTTCTCTCTTNCCTTTAGGGAACGCTGGTGCAATT  
CACCA

Sequence 461

GAGTTTGAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAG  
ATGCTGTTTCTATGCCCCACTACAAACAAGCTACTGNGGGCGACNATAAAACAAGAAC  
GGCCCCGGGGATGTTGGACNTACGGGGCAANGGCCAAGANTTGGANGCCTGGGAANGAG  
CTGAAAGGGACTTCCAAGGAAAGNANGCCATGGAAGGCTNTACATCAACCAAGTATG  
NAAGAAGCCTAAAAGAAAAAATAACNGGGANTAATGAGAGCACNTGGATTTTGGGNTAC  
NTGTGCCCCATGTGTTTTATTCTTAACTGGAGNACAATTGCCTNGNNTTTTTCTAAN

N

ACCCGNTGGAATGGTTGGGGAAATCTCTGGGGAAAAATAANCCAGNTAAAACCAGCTACC  
TCAAGGGCNTGCTCACCCATACCG

Sequence 462

AGCCCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGATGTG  
TGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTACAATACAGGTCAGA  
GACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACC  
TTTCTGCACACTCCAGACAACTTCCAGACAAGCTCCTTTGTGCCTCTACGTGGAGAGG  
GCGTGGAAGTTATCACATTAAGATGGAGGATTTAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAGTACCTGCCCCG

Sequence 463

GCGATNCCCCCTGGGAAGCTCCCTCGTGCGCTCNTCCTGNCCGACCCTGCCGCTTACCC  
GGATACCTGTCCGCTATTCTCCCTCGGGAAAGCCGTGGGCGCTTTCTTATAAGCCTC  
ACCGCTGTAGGNATCCTCAAGNTCGGGTGTAAAGNNCGTTCTGCTCAAGGCNNGGGCTGG  
NNGNGCACNGAACCCCCCGNNCAAGACCCGACCCGGTGCGCCTTAAACCCGGAAAACT

Table 1

AATNCGNCNTGGAGGTCCCAAACCCCGGGGNAGGACACCGACTTATCCGGCCACCTGGGC  
AGGCAGCCAACCTGGGGTAAACAAGGGATTAAGCAG

Sequence 464

CCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTTT  
T

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACNGCNGCCNCCNCCATGAAAGAGGG  
GCCNCCACATNTTTATTGCATACNCAGGGGAATAACTTATTNTACAANGAACNCTCCTCC  
ATTNGGAGACCATGCCACCTACAGAATGCANCCGNAATGCGGTAAATNTATTTACAGA  
GGNTGGGGNGCAAGATGAGANAAGTTTCANCCCCAGGAATTTGAAGNGAGAATGATCTAC  
AAATTNTCCTGACAAGNGCAACCGGGCTTNGCTAGNGNGGNGCTGAAANAATTCCTGGC  
AAANCGTAGGGGGAGATTAAATCTCGGAATTGACAGCAAGTTTGGGGACAGNGCAAAAAAN  
AGAGGGGTGACCCTGTGAAATTTGGTGCCTGGGGGAACTTCTTGANGCCCCAATGNGGGG  
GCACCNCTTNGAGANGATNGGGNTAAATTTANGGGGGGATNTTTTAACCCCTNTCCNNCC  
CCAACCAAAAAAGGG

Sequence 465

GGCGGCCGAACGCAGAGAAGGTNGANGATTGCACCATGCCGATTCGTGCAACTGTGAATT  
CTACCCCGGGAACCTCCTCCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAAC  
CAGACATAAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAGAGAATGAAACTCCAC  
CTGCTACTTCNAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAG  
AAAATAAGTCTTCTGAGGAAACCAAAAGGATGAGAAAGATCAGTCTAAAGGAANAAAAAN  
TTTTATNNNATTAAGTACCTCGGCCCGCTCTAGAAGTAGTGGGATCCCCCGGGCT

Sequence 466

TGGCGGCCCGAGGTACGCGGGGAGGTGGTGGCGGCTTCTCCCGAGGTGGAACGGGCGGC  
AGTCAAGCGCCGGCGTTCTCTGCCGTCACCCCTTTCCTTGC

Sequence 467

CGCGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGACAG  
AG

TCTTGCTCCATCACCCATGCTAGAGTGCAGTGGAGTGATCTCGGCTCACTGCAACTTCCG  
CCTTCTGGGTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAGGCAC  
ATGCCACCACGCCCACTAATTTGTATTTTAATANAGACAGGGTTTGACCATGTTAG

C

CAGGCTGGTCTTGAACCTCCATCAGGNGATCTGCCCTCCTCAGCCTCCCAAGTGCTGAGA  
TTACAGGCATGAGCCACCGCGCCTGGCTGATTGNGTTCCTTCTCACAGATTTGTTT

CT

GTTTTTGTTTTCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAAGTTAA

GT

CACAAGTAGCGCTGTGACTGGGTTCTGCCCGGTAGGAAGGTAAGCAGAAGTGAATGTGTA  
TCACTTCTAATGGTGTGGGNGCTCCCNAAACCTTCTAAAGGGGTATGTTCCCCCTTTT

TT

T

Sequence 468

TTGGAGCTCCCCGCGGTGGCGNTCGGTGTGCTGNGCTCAGCTGCCTCCNANGGAGGANC  
NGATCGGCNAGTGCTCTGACTGCGTGCCGACAANNNGCTGNCGNAGAAAGAAATNAAANC  
CCTGAAACATGACAGNGAGTGNTGNAAAGTGAGAAATGCCTTCTTAAAGTTNATNAANG  
TNAANTCAAANNACATTTTTTTTTCAAAAANATAAATTTAGAACTAANTGNACCTT

Sequence 469

CGGAGGAGAATGGTATCACTCAGGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGG  
TAGGACATGACCCTGCCAAGGAGTTCACAAACCACTGGTGGAAATGAGCTCTTCAACAAGA  
CTGCGGCCAACTTGGTAGTGAAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCTGTT  
ATCTTCTTTAGAACTAAGTTCATCTTAAAAATTAAGAAGGTGGACATTCAACACCAT

C

## —Table-1

AAGTGCATTTAGGTGACATGTTTAAGTTAACTTGACTTCCTTGAATGACCTAGTTAGTA  
A  
ACTAGTCACTAGTAATTCGGTCACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATAT  
TCAAAATGCCATGTTACCATCTAAACC  
Sequence 470  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTTATTGTCTACCTCTCTGGA  
CTCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAG  
TTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCAGTCTGTCTGGACAGCT  
GATGAAGGGGTCTTCGACAATTTTGTCTCAAAATCAGAGATACCAAAAGCAGTCTGAG  
CCTGGAATAACCTACTTGCCCCGAACGTACCTGCCCG  
Sequence 471  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGGAAGA  
CA  
CAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCCTGTG  
AGTCCACGCAGGCCTCCTGGGCATAGGATGGAGCAATTCTATCTACCTCAGGCCTAGCA  
CAAAGGGCTTCAGTAAACCACTGGAGTTTCCTTCATTAGGATTCCATCCCAGGATATCCA  
GAGGACAAGAGGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGCTACCTGCCCG  
G  
Sequence 472  
GCCGGGCAGGTACTATGGGTGTAGTGNTACTATTACAGTTAATNCNTCCTTTGTAGTGCG  
CTGNTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGC  
Sequence 473  
CAAAATAATTATAATGTATTAACCTACTGCCTGTCTTTTATAGGGGAAAAAAATAAC  
C  
TNTTTTATTTTAAAGTTATAAGGGGGNTTACCTTNTAGNGTGCTTGGATGACAGGGAA  
AT  
TAGCCTACCCCATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGNCCAAGTGTG  
TTNACTANTTAAGGCAAGATCATGCTTNTGTGAGTTNACCCANTGNTTGAATACCGTG  
NACACCGATCGTGGCTCGNCTACAGCCTCCATGTNCCCAGGCTTCGAGCAGGT  
Sequence 474  
GGCGGCCCGCCGGGCGAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAAGCGGCGGCCACGG  
CATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTC  
TTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGACC  
GTGTACTTCTAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGTT  
T  
TTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTT  
CTGTTTGTACCTCGGCCGCTCTAAACTAAGTGGATCCCCNNGGCTTGCAGGAATTTCTGA  
TATTAAGCNTTATCGATACCGGCGAACTCGAAGGGGGGGNCCCGGGACCCANCTTTT  
GGT  
Sequence 475  
TTGANGCCCTCCCCGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGG  
AAGTCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTTCATGGAAG  
TCCAACTTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGTACCT  
Sequence 476  
NGGCTACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCACGAGGCCACC  
ACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCACCTGGATTCCCTTT  
TC  
CAGTTTCTTATGTCCACAAGTCACTGTGCACAGATAAGAGTGTTCTGTTCTCAAACTCAC  
AGGGCTCAGGGTCATGCGTGGAATTGGGTCCCTTCACTCCTCACCTTCCCCGCTTCA  
GAGGGCTGTCTATCTGGGTCTCCAGGGAGAAAGATGGGAATTCACAGCCCATGGACAC

Table 1

TACCATGTCAACAATGACTGAAGTCTTCCAATCTGAGCCAGGCAAATTCNNGNGGGTCC  
AGGGGGGAGAATCTCAAACAGNTAAAATGGGTTTTCTCTTGGAACAAATTAATTTCCCA  
CCTCTTTTTNTTGNTTTTTCCCC

Sequence 477

NGGNGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAA  
A

TATTTATTAATAATGATTTTTTTAAGTTTGAACTTTATTGGAAGGAGTCCCTCTAATTCAC  
ACTTTCATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTTTT  
A

AAAACCACATAGTAGCACAGTTGAAAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAA  
AGGNGGCATCTTAGGGNGGGTCCTAAGGAAACCCAAATTACCAGGTCTCATGGGTTTTCC  
TTTTGGGTTCAAGGATTAGAAAGGAGTCAGNGGTTACCCACCTACCCTGGTTTTTAGGA  
GGGGTAGGAATATTGAAACCTTTCCTACTTAGTCCANCAGGTTTTACCTGGTTCAAGGGT  
GGNCCCCCAACCAAGGTTCTTTTTTATCTTTCAAGCCCCCATTCTTTGGCCCTCTT  
AA

GNNGGGGGTGG

Sequence 478

TCCCCGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCATTCCCCTCCCTTGT  
TCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTTGTATAGAAGTAAAT  
GCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence 479

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGCCGCCA  
TCAGNGTAAATAGAGCTTAAAGTCATGGTTGGCTGCATAAAATTTCTAACTTGGGT  
T

NAATATTTGTAGNTGAAGTATCTGCTTTTCATTTTTTTCACGTTATAAATAAAAACTAT  
GCTGGNCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAATGTGGGT  
GGATCATGAGGTNAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACCCCGTCTCTAG  
TAAAGATAAACAAAAATTAGCTGGGC

Sequence 480

GCGGTGGCGGCCGCCCGGNCAGGTACAGATGCAAACGGAGGTGTAGACTGNGCAGCTGCC  
AAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTG  
AATGTGCCGATGAGGCCTGGCATTCTTGTCCAGAGACAGAGTAAGGAAGTGTGGCCACA  
CCCTTAGAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAAACGTAC  
CTN

Sequence 481

ATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTGTCTTAAGGGTTGAAACATCANAATAA  
AGGTATGGTGGCAAGTCCTCCTTCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCT  
AGGTGGTAGTTACAAGGGTATTTATTTGCCTTATAATAATTCATAAACTATGTTATT  
TGAGTNAGATTTTTATGTNGTGNGNCNTTTAATTTACACAAAATTAAANCAAAAAGNA  
A

CNAAANGTTGCNCTCNGNCTCGGNTTNTAAGTAAACCTAAGGTGGGA

Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAATTTGAGCTA  
GTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGTGTAGCCAGAATGCCGAAAA  
CTTCCATGCCCTAAGCGAACTGTTGAGAGTACGTTTCGATTTCTGACTGTGTTAGCCTGGA  
AGTGCTTGTCCTAACCTTGTCTGAGCATGAACGCCCCGCAAGCCAACATGTTAGTTGAA  
GCATCAGGGCGATTAGCAGCATGATATCAAACGCTCTGAGCTGCTCGTTCGGCTATGGC  
GTAGGCCTAGTCCGTAGGCAGGGACTTTTCAAGTCTCGGAAGGTTTCTTCAATCTGCATT  
CGCTTCGAA

Sequence 483

Table 1

GCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTGA  
 AGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCNGGGCAC  
 GGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATCA  
 TCTTAGGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCATCCCTACTAAA  
 AATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAATCCCAGCTACTTGAAGGCCT  
 CGGCAGGAGAATCACTTGAACCCGGGAGGCANAAGGNTTGTGGTGAAGCAAAATTGCGCC  
 ATTGCACTCCAGCCTGGGCAACAAGAAGCCGAAATTTCTGTCTCAAANAATAANAACAA  
 AAAAAATAAGTACCTGCCCGGACCGGCCCGCTTCTANAAGTGTGGGATCCCCCGGGCC  
 TGCAGGGAATTTGATATTCAAGCTTATCGGATTCCGTNCGACCTTCGANGGGGGGGGCC  
 CGGNTCCCAAGCTTTTTGGTTC

Sequence 484

GATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAAGGATGTGGATGGCCTGGACCGCAC  
 AGCTGGNGCAATTCGAGGCCGGGCAGCCCGGGTCACTCACGTAGTCACCTCAGAGATGGA  
 CATCGAGCGGCCCGCCGGGCAGGTCAAGCTTTATTGGGCAACAGCAACGAGCCACGCT  
 GGCAACAATGAAAGTAGAGTCGCTCAGAAACACGAAAGATCATATGTGTGCATCACAG  
 CATCGAGAATTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCNNAGCT  
 CCCCTCTAATCAAAAAACGCTTGTCTGGNGAAAAATTTGCATGNGGGNTTACAGAGAGA  
 GAGATCAACCAGGTGAGGAAATCACAAGACTTTACATGAGTTTACAGTTAACCCCCCTG  
 CACCAAAAAATAAATTAGCCATAATTTGGTT

Sequence 485

TCCCGNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGGAGGATACT  
 T  
 TCATTTTTATTTATATCGTGAGGTATTGTTGGATTGTTACAATGAACTTGCAATTTCTT  
 TTGTAATGAAGAAAATAATACAGAGGAAATAACAACAATAAACCTTTGGCCTGGGATTA  
 TCATCCGGGCTGGGAAATTCATGTTGGGATGGCAAGGTTTTATTGATAACAAGGTTATT  
 TTTTGGGGTTTATTATTGCAAAAAAAATTGTTTCATTGGGAATTGCCCTCCTATTGG  
 G  
 CTGGGCACCTTGCCCTAAGGGCCACTTTTACCAAGGGTATTTTCATCCCTTAAATCCC  
 TCACCAAAACCAGGCCCTATTGGAAGGGGTAAATCAATTGGGGTCCCCAAGGTTTTACCA  
 GGAAAGCCCTTTTGGGGGGNGGGGGGAAGAATTATTTGGGCTTTGGGATTATTACTTTCT  
 AATTTTGGCCACCACCATTTTTTTGGTTGGGGCAAAGGACCGGTTCCGGTAATCCGG  
 GCTTGGGTGGATTTACCTTGGGTCAAAGGAAGCTTCTCATTGGGGCCAAGGGAGGTTT  
 CCCTAATTTGGTTGGCTTGGNAAAGGAATTTCAAATAATTCAAAAAATACTTAAGAAA  
 TTTTTNCCCCCA

Sequence 486

TGGCGGCCCGCCCGGGCAGGTACGCGGGAGTGTGGATNGAACAGAAAATTGGAAATCATAG  
 TCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAACCTTGACTGGGGTTTTTTCT  
 G  
 CTAAAAATTTCAATTCCTGTTGTAACAACCGCAGAGTAGAAGGAGAGGGTGACTTTACC  
 GAACTGACAGCCATTGGGGAGGCAGATGCNNGTGTGGAGGTGTGGGCTGAAGGTAGNNGA  
 CTGTTTGATTTTAAAAAGTGTGACTGTCAAGNTTGTATCTGTTGCTTTTNTCAATGATT  
 C  
 AANGNGATACAAAATGGGGCTTCTNTCANTCATTTAAAAAGGAAAAACGCCGACCATCCT  
 TTCTAAGGATTCTCTGTGGGAAAAATGGACTGTCAATTAATGGCGGGGTTTT

Sequence 487

CCCCAGGGTTCAGTCCTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCTAGCTTAGA  
 GNCTCCCTCAATTCCTTGGCCACCACCCCCACTCTGTGCCTGACCTTGAGGAGTCTT  
 TGTGTGATTGCTGTGAANTAGCTCACTTGGTGATATGCCTATATTGGCTAAATTGA  
 AA  
 CCTGGAATTGTGGGGGCAATCTATTAATAAGCTGCCTTAAAGTTCAGTAACCTTACCCTTA

Table 1

GGGAGGGCCTGGGGGGAAAAGGGTTAGAATTTTGTATTCAGGGGTTTTTTGGTGTACCC  
TGCCCGGGGGCCGCGCCGCTCTAAGAACTAGTGGGATCNCCNCGGGCTGCAGGGAATTCG  
ATNTCNAAGGCTTAATCGATACCCGTTCCGACCTCGAAGGGGGGGGGCCCGGTACCCCAA  
NCTTTTGGTTCCCTTTTAAGTGGAGGGGTTA

Sequence 488

CNCGNGGTGGCGGCCGAGGNACTTTGTTTTTTTTNTTTTTTTGAGGGTGGCTTTAT  
TT  
TCAATATTTGTCTTATTAATATTTTCTTATTTATAATGCAATTACAACNGNTTAGGA  
GACAAAACAATATAAACAAAAGAATGTTAAATAGGTTTTTTTAAAAATAAGCTTGGTT  
GGCTTGTGAANGGAAAGTCCATAAANTCTTATCCCCCCAAATATTAAGTTTTATT  
A  
CTTTNGCCACNTAGAGACCCAAAAATAGCTTATTGGGGAAAAAAATTANGTTATTTAAA  
AATANGCCTTAAAAACCACCAAGGAAAAACCTTACCAGGGCNTATTAATAATTAACCA  
ATTAAAAAATTACCAAGGGTTTAAACTTTTTAAATGGGNGGGATNGGCCTTTAAAAACC  
AAA

Sequence 489

NGCCGACCGAAACCTGGTGAAGCCCTTTGGCGATTGGTGATCACCCCTAGATCCGTGAA  
AGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATCTTACATTCCTGGAA  
CCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGGTAAATGAAGAGCCTTCGAAAAAAC  
TTTCTTGCCCTCAAAGTATTTACCATAAATCTCTTTAAAGTGGACATGGTTCAAGAA  
T  
CAAGNGGGCTCAAGAAGTTTNGAAAGTAAAGNAGGTCAATTTCCCTTAAGTTTCAAGCTT  
TTCAAGTTTTGNTATAACTTTTCAAGCCCTCTGGCCCTTTTTCAAAAAGAATTTTCTT  
G  
GGAGGAGGTCCAAATTTTTTTCTTTTNGTTTNCCTAACNTTTCTTTTTTT

Sequence 490

NCCGCGGTGGCGGCCGAGGTACCTGATTTTATTTTCNAGTTTTTCATCCGAATCCACTGGGG  
AATGGGACGATTTTGCTTTTGTTTCTTGCCAGGAATCGCTTAATCCTGAAAGTCTTG  
TG  
AGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGA  
GGCCCCGCGTCCTGCCCCG

Sequence 491

ACTCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAAATAAAAAGGAGGCTGGTGGGAG  
AACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCA  
GGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGC  
AGGTGCAGTGGCTCATGTCTGTAATNCCAATACCTCTGGGAGGCCAGATGGGAGGGATC  
ACTTTGAGCCCCAGGAGTTTGAGACCNGCCCTGGGTTACACAGGGAGACCCCCGCTNAAA  
ATTTTAAAAAANTAGTCATTNCTTAGTGGGTGCNTTCCCTGTNGTNCCCCACTTCTTT  
G  
GANGGTTTNNNGNCCAAGGATTTCTTTTNGCCCCTGGANGGACAAAGGCTTTCANTGAGC  
CTTTTNNATTTTACCCCTTGGCTTTTAAACCTTGGGCCATATNAATTAGAANCCCTTN  
T  
CTTTTAAAAAATAAATAAANGGGGGNGGGGCNCNCCCCCTNTTTTTTTTTGGCCCA  
ANCNCCCNATTTTTTTTTTTT  
N

Sequence 492

TCCCGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTTTCTGCAA  
CATTAAGTATGGGTCAAAAAAGAAGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGG  
AGGCTGAGGCAGGTGTATCACAGGTGAGGAGTTCGAGACCAGCCTGACCAATATGGTGA  
AAACCCATCTCTACTAAAAAACAACAAACTTAGCCAGGCATGGTGGTGCACGCCTGTA  
ATCCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTG

Table 1

CAGTGAGCCCGAGATCACGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCT  
CCCAAAAAACAAAGAAATGACTTTAGACAAATGGCTTGAATGAAATTACAAAGAGGAGGT  
GCATTAATAAATCCCAGCAGTAAAAAATTTTGAAGAATTAATAATGACAGGCTAAAAATAA  
ATAATAAATGTTCTTTTT

Sequence 493

CCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCT  
TTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATC  
TCTAGCAGCAGAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTG

A

AGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTCGAGATATAGAAATAAT  
ACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCATTATAGATAANCTAGA  
AAAGGTGNCCTGTGAGAGGAGGAGATAAAAACTAA

Sequence 494

CGCGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAAGGCAGCCGTTCTGCAGGGT  
TTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCC  
GC

GTACCTGCCCCGGGCGGTTCCG

Sequence 495

AGATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCCGTGAGGNTNACTTATGTCTG  
TA

AAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGAT  
TATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATG  
AGAGAAGAGTATGACAAAATTCAGATTGCTGNCTTGATGGAAGAAAAGTTCCGAGGTGAT  
NCTGNTTTGGGCCAANCTAATAAAAAATTTTCAAGAATNNCCCCCNCTNGNAANCNCC  
CNGNCTTGAAANCNTTTTAAAAAAAAGAAAANGGTTTAAANNGTAAAAGGGGNCCCC  
CNCCCTTTTTTTAAAAAAGNNGAAAAAAGGGGNGGGGGGG

T

Sequence 496

CGCGGTGGCGGGCGCCGGGCAGGTACCGTGAAAAGGGCACTTCTCCTTGAGAAGGCCT  
GACAGTGTCTTAATGTCCTGCTGGCGCATGGTGAAAATTTAGGGCAACAGTAAAGCAC  
CCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTC

AT

TTGCATAATAGGCAGTTTCAATAACTGGGGAC

Sequence 497

CCGCGGGTGGGGCCGGCCGAGGGTACNNNGGAGGCCTCATAANGGCNGGGNATCNTCGAG  
GNTGGTATNGNACTGNTNANAAAGCCNNCATGGTGGTANCNCACCAAAANCTCACAAGAA  
CAATTGNNGCNCGGAAACAGGCAACAGANTCTGNCATTATATAATAAGGGCGTGGTACGG  
TTGGGGAACCCCGNANGANTCNNTATGGTCCCTGNTTNGCAAGCNNTGCATTTTAAATCA  
GACGACCGTNAATTTGTTANCCCCAANCCTTNTTANAATAAATCGGCAATCGCGCAATAT  
CTCATCATTNANCNACTGTGGACGACTTGACAATCTTAGTGGCTTNATGGACTTATTGCA  
AAACTCGAGAAAAGAACAAACCTAGGGGTGCGCCCTGACCTTCGGAATAATTCGTAAGCTA  
TATGTGAGAAACTAGCAACAGGGCGTTTCATTTATGNGNAANGGGACGCGAANTGGANGA  
TAATTATGTAANAAGNGGGCCCTACGANTTTGGCCCTAGACGCCAGGGAAACCGCGG  
GGCNCATGCATNACNCACTTANGGNAGGGGTANTTCTCCNCACACNCTCNTTTTCG  
ATTTGGANAATANGCTGGGAATNAATCCTACATGACCTGTCAATTTTCGGAGTTATCGCNG  
GCCGGTACNGNCCCCCCCCGGGGGGGGGGGGGGNCCCCCGGGNTTANCCCCCAAGCT  
TTTTTTGGTTTCCCCCTTTTNAAGTTGGAAGGGGGGGTTTNAATTTTGNCCGGCC  
GC

CTTTTGGGGCCCGGTTAAAT

Table 1

## Sequence 498

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGGCCTTCCACTTCAGCTGACT  
GAATTTAGGCAGTTCTGGCCACTTCAGTTCCGCACCCAGGCCTCCTGACCCATGGTATC  
TACGATGAGATCC

## Sequence 499

GTGGCGGCCGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTT  
CACTGAAATTTCACTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACT  
CATTTTCCCATCACTGGACTTCCAGGTTGTTTTCAATTTTCACTGTTACAAACAAGGT  
G  
GCAACATTTATCTACAAACCTCTTGGATATTACACCGTAGGNAAGCTTTCTGGGTTATT  
T  
CCACCTAGTGAAACCTTGCTCAAGTTTGAAGGGGGTANTGTTGGGATNCTTTCATCTT  
TT  
TAATTAAATTTATTTACCAACCATGTTGAAAAAGCCCCGACCAATGGTCAAGGGACTGNG  
CAAAGGAGGTGCCACCAATGTTGAATGGGGGNTGGTGGGAAATGGGCAANGCTTCACTG  
NTANACAAGGGTGGCTTGGGGGGACCTCAAGTTTGGGGGTTCTTTGGGAGNAAAGCCAC  
TTTAGNTTTATTAGCCAAGGAANTGTTCTTCATAAAAATTGGGTNTTCTTGATTAGG  
A  
AGACCAANGAAGTTAGGTTNGGGGGGAAAT

## Sequence 500

CGAGCCGGGAGCCATTNANAGTTGTTAAAAGCCTNGGGGGTGCCCTAAATGAGTGAGCCT  
AACCTCACATTTAATTTGCCGTTTGCGCCTCAACTTGCGCCCGCTTTTCCAGNTCGGGGA  
AAAACCTTGTCCNTTGCNCAGCTTGCAATAATGGAATCGNCCCAACNGCCGCCGGGGG  
GAGGAGNGCTGGATTTTGCCGTTATTTGGGGCGGCTTNTTCCCGGCTNTCCTTCCGCTT  
CAACTTGNACTT

## Sequence 501

ACATACTAGCNGGGTAGCATAAAAGNTGTTAAAGCCTGGGGGTGCCTAATGAGTGGAGC  
TTAAACTTCACAATTAAATTGCCGNTTGCTGCTCCACCTGCACCTGCTTNNCCAAGAT  
CT  
GGGGANAAACACNTGNCGTGCCAGGCCTGNNATTAAATGCAATTCNANNNCAACCGCCGC  
NGGTGGGAGNAGGGACGGTNATTGCCGTTAATATGGGGGGCCGCTACTTTTTCCCGC

## Sequence 502

NACAAACATTACGAGCCGGGTAGTCATAANAGCTGTAAAGCCTGGGGGTGCCNTAATGAG

## Sequence 503

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTT  
TCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGNTTNTGNATCTG  
CCCACAGACGGGTGTTCTAGACGGCCGCTCTNNAAC

## Sequence 504

ACATACTTANCCCGGNAGCATTAAAGTGTAAGCTCTGGGNNTGCCTAATGAGGTGAGCT  
AACTCACATTAATTTGCGTTGCTGCTCACTGCCCCGCTTTCCAGTCGGGAAAACNCTTGG  
TCNGTGCCCAANGCATGCATNTAAATGNANATCGGCCCAA

## Sequence 505

CACAACATACGAGCCCGGGAGCATAAAGTGATAAGCNCTGGGGTGCCCTAAN

## Sequence 506

CGGTGGCGGCCGCCCGGGCAGGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGG  
GAGTCTGCGCTAGGCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACCTCATGTTTGCA  
CCCGCGGTTGATGCGTGCTTTTCGAAGAACAAGACTTTCGGCTATGGAAGTCCCCATGT  
TGATGGATCCTGAGGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTTCGGA  
ATTATTGAGAAAAATCAAANACTCCCNAGTTTTGATGACCTGNGAAGGAATATTTTCNGAG  
GGACNCCANGCCCTTTGGGGNAAGGANTCCTTGACTCTATCTTTTCAAAGGGAATGNAAA

Table 1

ATTCCTAGTAACAGGCCCTNTAAAGACTNAANACCAAACCTTGGACTTCTTGCTTGGATT  
TTCNTTTTATTCCCTTTTTTTTTTATTNTTTTTTAAAAATAAANAAAAATAATTTAATT  
TTAAACTTGGNACCTTTTCCTTAAATAATATTACCTTTCTNATTCAAAGGTGGGAAAA  
N  
GGGAAAATTTCC

Sequence 507

GGCGGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATNCCATA  
TTAGGTTAGATNGAGAAGTGTGTATGTGTGTGTGTGTGTGTGCTCNGCACAGTNGA  
TGAAGTGTAAACATAAATTGAAGATATTGGAAGANTACATNAANTTATGGACCAACATGA  
CAATTTTCATTAGGACTTCCTATTCANAGAGTATCAGTTTACANNTTGGGTATTAGNT  
A  
CTAGTATNAAACATTTTTCAGATACTTGCACTGATTTTCTGGTGGANTAAAAGCAANGGCTT  
NTACAAGTTNTAAGCATGTCTTNTANGNCTATGCTTTGGAATACCAGCTAATAACCAAT  
C  
AACAAGNCCAGNAGCCTTAANGTGGTATTTTTTTGGTTGACCCTAAAAACATGGAACCT  
NAANGGGTTTCTNCAAAAANTTGCCTTAACCAATGGAANTAGGTGGGGGAAG

Sequence 508

TATCCGCTTCACAATTCACACAACNATACGAAGCNCNGTTAGCATTAAAGTGTAANAGC  
CCTGGGGTTGCCCTAATGAGTTGAGGCTAACCTCACATTAATTTGCNTTTGCCGCTTAC  
NTGGCCCCGCATTTTCCAGTTCGGGGGAAAACCNATGATCGTTGGCNCAGGCNTGCCATTT  
ANATNGGAATTGNGGCCAACCNCNCCGGTTGTAGGAGGGNCGGGTTTTGCGGNAATTTG  
GGNGCGCTTCTTTCCGCTT

Sequence 509

CCNANGTACACTCCCACCACCACCNCATGGTCTCTTTCATATNNCTCAANNNTCAACNTG  
NTCCTGNGGCTTCATAATTNTCCTNTTNCATCTTTTCACTTCNNANGCAAACACCGC  
CT  
CNNCTNANGCTNTNNANTCAATNCANTTNNCCTTAATNAAATCACAAANTNTCCTCC  
AT  
TACNCANNAANNTNTNNNCATTCANNNCCACAATCCNGGTNNTGGTCTNNCTNNNCCACA  
TCANCAAAAATCACATCCACCATTCNATCCCNCTACCTTCCNNNNCCNCCCCTCTAAA  
ACTANTNNATCCCCNNNCTNCAANAATTCNATATCAANCTTATCNATACCCTCNACC  
TC  
NAANNNNNNCCNTACCCAACCTTTTNTTCCCTT

Sequence 510

CGGCCGCCCCGGGCAGGTACTCTCTGAGCCAAGGACATTCTCATTTAAACAGTTTAAANAG  
GCTGGGNGCNGGATCGGGAAAAAAGAAATATACCCTGGCAGCCGCCTGCCCGGCCGGA  
AAGCGGANAGGGACNCTAANATCAGCAAATTCNCCAGTTTGGATCCTTGTCTTTTCCGC  
CCTTTTCCCCCATTAATCCANAACCCGTCACATGATAATTAANAAAANGGTTTCAGTTC  
CTCCTCCTCAAACCACTTCCNGTAAGAGGATCCCCNCNTACCTCNGCCCCCTCTAAACT  
AGTGGATCCCCCGGCCTGCANGAATTCNATATCAACCTTATCCATACCNTCACCTCA  
AGGGGGGGCCCCGGTACCCAACCTTTTGTTC

Sequence 511

GGGGGAGGGCAGNAAANCAAACCACAGCNCACNGCANGGGCACACANCACAATCCCCAGC  
AAAAAAAAAAAAATNNNTNNTNCCAAACANAAAGAGCCTGGCCAGGGGGCCCANACGGGCC  
NNAAAGCCCNNGGAACCAATTTTTNTGGGGGCGGGGGCCCCCAAGGGCGGGAAAAACA  
GCCACGACCCACGGCNCNCAAGCNCGAACAGAGAGCNGGGGGAGACGCNGCCAAAAGCAA  
ACGGCGGCCAAANCNNAGGGAGCAANNNGGGGCGAAAAGNNNAACGGAACCANANGAAA  
NAAAAANCAAAAANAAACCGGACCANA

Sequence 512

AGCANACCGCGGNGGCGTTTGCGGGAGAAACNGNGGACCCCCGGGCTGCAGGAANNCG

Table 1

ANANNCNATTTAGGGNGACNNAACCCC

Sequence 513

NAGNCACCGACGAGACCAGATTANACNTNNGGGGCGNGNAAAACCCCAGCCCCCCCCGGNC  
ACAGCCCNAAGGCCAACCCCTTTTGGAGGNGCNGGGGGANGCAAACNGAAAAANAGCNG  
GAAAAAGNAGGAGNNGAAGCCAAACAGCCAAANNCCNGCCANNAGGAAGNGNGNAAGGGTT  
TTGCNANTTTTTTNANGGGGGGGGNANACACCCCCNGAANAAAGNCCGGGCGNGNCNCC  
CNGAACGAGGGGGGGGGGGGGGGGCGNGCAAGAANNNGGGNGANCAAAGCNNNANCGANAC  
CGGNGACCNNGNAGGGGG

Sequence 514

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAATCTTACCTTCAGT  
CTTCTCGCCACCCAGTCATTTATATGCTTCCTGCACTCTTCAGTGTCTTCAGCAAAG  
GA  
CAACTCCTCCAGCTCTGCCTGATAGAATTCTGACAGTATTCTTTAAAGTCTGGAAGGAA  
ATCACACGTCTTTTCTCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAGC  
AGGAAGTGAAACCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAG  
GCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTA  
CGACAACCTTTGAAAACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGA  
AGTGAAAAATAAGAGGGGGCCGCTCAAATCTCCTTTGGGACACAGGGGGTCTTTTCGAGGC  
CAGGTGTATTTTCGAGCCTCAGTACCTCGGGCCGGTTCTAGAACTAGGGGGATCCCCC

Sequence 515

TTCGCCACCGGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAA  
AAAGAAAGAAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGA  
TTACTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT  
GG  
GCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG  
GGCGGCCGCTCGACGTGGTCGCGGCCGAGGTACAACGCACTAAGAGGGACGGTTAATTC  
ACAGCTTCCAGCTCTTGGCGCCAGAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCA  
TTTCCGGGAGAACCTCTTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCC  
CTTGGCGGGCTTT

Sequence 516

ATTGGAGCTCCCCGCGGTGGCGTTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGG  
ATCTCAGATCACTGCAACCTCTGCCTCTGGGTTCAAGCGATTTTCCTGCTTCATCTT  
CC  
CAGGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTGTATTTTAGTAG  
AGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCGACCTCAGGTGATCCGCC  
CGCCTCGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCTATACTG  
TATATTTAAGGAAGTTCAGCATGTTGCATCTTCTGCATTTATCCCTATATCATTAATA  
GAACATAAAGTTATCATGGTGTGGGTAATAGCGAAATCAACCCCTTCTTAAGGTTT  
AAGGGGAAAAGGTATTTTAAAAACAACCTAATNAAAACCTTACCCTTCTTATACAAGA  
GTGGATTTCCCCCTTAATTAGGGATGCATGGTTGATTAAACCTCNAGATACAGCTTTT  
TT  
GCAGTAATGGGGGGGNTGGGT

Sequence 517

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTGATCCAGTTCCTTGCTT  
TTCAACGAGAAGGATTTGGACGTCAGAGTATGTGAGAAAAACGCACAAAGCAATTTTCAG  
ATGCCAGTCAATTGGATTTCTGTTAAACACCGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGAGATGTG  
GGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCTGCAGACCGCAGTTGCC  
GAGGTGACTTTGAATGGGGATATTCCTTTCCATCGTCCA

Sequence 518

Table 1

AAACCCACCCCCCAGGGGAAGGGNNGAAGGGAGGGGCTTGGAGGGCNGAGGGGAAGC  
 CCCCAGAAAANGACNNCCCCAACCAGGGGANAANAGACCCGGNAGGGACAGGCNAAGGA  
 GAGGGAACAGGGGAACCANCACTTTTNTNTTTTGGGGGGCACNNGGGCNGGGACCCCCC  
 NACAAAAAANANCCCCCGCCAGGANGGGGGGGGGGNAAAGGGNAAAAAAAAACA  
 AGACCCAAAGAAAAAAC

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGTCAGCAATTTTGACAGTCAT  
 TAATGTTTGCATAATTTTAAATAAAGTGTCTGGGTTTCAGAATAAAAAAAAAAAAAA  
 AAAAAACAATAAAAAAAGTACCT

Sequence 520

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATGTTGAATAAATGTTTTTTCC  
 CTTTAATTTTCTGCTTCCCTAGTGCATAGAATTGAACTGCTTAGGGAGTTGAGGCT  
 G  
 CAGTGAGCTATGGTCATGTTACTGCGCTCCAGCCTGAGTGATGGAGTGAGAACCTGCCTC  
 AATTAATAAAAAAAAAAGAAAGAAAAACAGTGAGTGGGCTCATGCCTGTCATCCAN  
 CAGTTTTTGGAAGCCAAGGCAAGAGGATTCAGGAGTTCAAGACAGCCTAGGCAACCT  
 TAGCAAGACCTTGGTATCTTCCAAAAACCTTTAAAAATTAGGTTGTGTGGTGNTGCC  
 TGGCTGAGATGAGAGGATTTGCTNGAATCCAGGAANGTGGAGGCTGNAGTTGAGCTATGA  
 TTNGGGCCNCAGCANTTCCAGGCCTGGGGNACNCCAGGGGATACCCTGGTCTTTAAAAA  
 AAAAAAAAAA

Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGTCGATGAAGAA  
 CGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACATTGATCATCGACACTTCGAA  
 CGCACTTGCGGGCCCCGGGTTCTCCCGGGGCTACCGCCTGTCTGAGCCGTCGCTTCCAAA  
 AAAAAAAAAAAAAAAAAAAGGTCCCT

Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCCCTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCC  
 CCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTCCCCAGCTTCTGTCATGCTTC  
 CTGTGCAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTCTTTATAAATTACCCAGT  
 C  
 TCAGGTAGTTCTTACAGCAATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAA  
 CACAAAAAATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT  
 GAGAAAACAAAAAGTCCAAAATCAAAGGAAAGCACCCGTTTTAAACCCTCATATCTTTC  
 TCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTC

Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTGAGAGGGAACGA  
 GAGTAAGAGAAAGAAAGAAGTGAGGGGATGTAACTCGAATAAATTTCAAAGTGCCTCCG  
 AGGGATGCAACGGGGCAAAAACCTGAAGTGTTCAGGCTTCAGATTGTAAGTACGATCTGA  
 GGAAAAATGAGGTTTGTGTGATTTTGCTAAAATGCATACCAACAGCGAATGGCTGCCTT  
 AGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCAGTGCGATGTTTTACCTCCTGT  
 GAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGGCTCAATGT  
 AGAAGACAGAAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGA

Sequence 524

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACTG  
 CAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCAAGAGGA  
 CCATCTTGAAAATCCCATGAATGAAGTACACAATCCTGAAGGCCTGGGATTTTTGT  
 CTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACT  
 TGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCA  
 TTTGTAAGTGCTGGAGTGACGTAACGCCATCTCAGCTCACCGGACCTCTGCCTCCTGGA

Table 1

TTCAAGTGATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCC  
ATATATGCAATTC

A

Sequence 525

AATTGGGGGGNAAACNACNGGCCCCACGGNCCNCNGGCCAGNGCACCCATTTTTTTNGN  
GGGNGAGAANNCNGGCCACCCNGACCCGGAGAGGAAGGAGACNGTTTTTNAAGNNGCCNC  
GGGCCACACNCNAAAAANCGACCCGCAANNNGCACCGACAAACANCGGNGNGCNAAAAACA  
NAACNNGAACANCCCGAGGAAACCGCCCNATTTTTTTTTTGGGGGGGNCCAANGAGGGGC  
CCGNCGCCACAAAAAAAACCAAGGCCCCNGGGGGGGGGGGGGGAGCCCAANANNGGGG  
NGGGGGC

Sequence 526

AACTTAATGTCTTCTTTTTTTTTTCACTGGCTTTTTTCATANATCGAGACATGTAAGCA  
GCATCATGGAGGTAAGTTTTGACCTTGAGAAAAATGTTTTGTTCACTGNCCTGAGGAC  
TATTTATAGACAGCTCTAACATGATAACCCTCACTATGTGGAGAACATTGACAGAGTAAC  
ATTTTTTNGGGGNAAGAAGAAATCCTACAGGGTCATGNTCCCTTCTCCTGTGGAGTGGGGG  
GGNAGAAGGGGTATGGCCCCAGGGNNGGCCATTA~~CTGACCCTCTACAGAGAGGGCAAA~~  
GGA~~ACTGCCAGTATGGNATTGCAGGATAAAGGCAG~~

Sequence 527

AGGTA~~CTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGG~~  
ATCCCTACGACAGTCCCCTGCTCCGCTTCCAGAGCGCTTTGTGA~~ACTTCTCCAAATAAG~~  
AACAAGGACACACATTGTGTCAGGTCACGAAGATCATTCA~~GTTTCCATATGCTGAAGGTT~~  
TTTCCACTATTCACACTCTGTGGCGTAACCTTCTTGAATATAACCCCAAATGTCACCCA

A

TCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGAGACAGTCTGATCAG

T

TTT

Sequence 528

AAGGANAATTTTTTGGGGGGNCAAAAAAACCCCANCCCCCACAACCANGCCNAACTNA  
ATCTTNGGNA~~AAAGAGGGAAANAGGCCCAAAAGGACAAAAGGGNNCANNCANAAAAAC~~  
AAANNNCCAAAAANCCGGCCAANAANANNNNCAAAANNNNCCCCAATTTTNTTTTTTTGG  
GGGGGGGAAANGGGAAGNNACCCCAANGNACGCAAAAAACNACCCAAACAGGGGGGGG

Sequence 529

CCGCGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGG  
ACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGGAATGGCAAC  
CGTGACCAATTTTTGGCTCAAGTTAAATACCAAAAAAC

Sequence 530

CGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATTAATTAGA  
GGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCTTCCAGGGTGCTGTTCAAGGC  
CCTGAAGAATTTGCAGAGGGGTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTA  
GGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCA  
ATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCC  
GGCGGCCCGNTCTAGAACTAGTGGATCCCCCG

Sequence 531

ACATTACNAAAAGGAGAGGNGGCCAGNNNAACACNCNGAANCCANCCNNGCCCNAGN  
AACAAANCACNGGAGAACA~~AAACGAAAAACAGCAGGNCCNCNNNNAANCCAANNCAN~~  
ACAAAAANGNCAAAGNAGAACCAAAAGCCANGNGNCCCGCCAANAAGCCNCCCCAAAAAG  
CAACAAAGAGGNCNGCCCAAAACNCCNAAAAAACAAACCCCCAAGANGAAAAAAAACCA  
AAACCCCNAAANGNAAANGAAACAANCAACCGGGGGCCCCCAA

Sequence 532

TTTTTATTCAATTTGCGATNGACAGNNNTAGNTTAAATGTTNGTAACACTCTTAGAN

Table I

N  
NNCTGGTTTGTTTCATTTGACATNGGGGCTGCACCAATTTTTATTACAAAAATCAAAAAA  
G  
TAAAAATTCTTACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATT  
T  
CTACAAAATCAAAAACCTTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAAC  
T  
GGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAACAAGGAAA  
AAAGAAAATACATGTCAACAGTCAGGTAAATATTTTGACCTGACAGGTTCTACAAATAGG  
GGATTTTCACTACATATAAAGGAATCTGTTACATGGGGGTAAACTTCCAGAGACCAAGT  
AGGAAGNGGTGGAATAAAAAACCAATAAATNCAAACGCCACCCACGGCTGG  
Sequence 533  
CCAGCTGCTNGCCTGCAAAGANGAGCCTCCTNNGGGGGGGGNAAAACCCCNCCCNANCC  
NGGANCTTGGCCTTACANTNNCGATGGGGGGCACTGGGCGCCACCTCANGGGAGAAGGG  
CTTGCCGGGAAGGGNTNNCACGAAGAACTGCATTNNGACCTGGNAGCGGAAACCAGGATC  
CTGCCAATNTNTNNACCACGGGGCACCCACAGGGACACAAACAAGCNCACCCAACAAAGC  
CAACCGCCCCNNCCCGNGGACCNGCCCG  
Sequence 534  
CCCGCGGTGGCTCTTGGGGCTAACCTCTCTGCAGATGAAAAAGCAGCTGAAAGGAGTTTT  
TGGCGNCACCAATAACCCTAAACTGAAGCCTGATTACTGGAGTGACAACTACNTGAAA  
GAAGCAGAAGCCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGGCG  
TGGTGAATGAGGGATCTCTTTGAGAAATTAAGATCACNTTTGGGATTACNTCATT  
TT  
CCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGNGAAATTCAGGGACTAACAG  
ATCAGGCAGACAAATTGATAGGACAGAAAAATCTCCTGACTCGAAAACGGAATATTCTGA  
TACGGAAAGGATCGNCTCTTTCAGGTAAGACAGAAGAAGTGGGCCGTAAGAAGCTAGAGG  
ATATTTATGCAAAACAGCAAGCACTAGAGGCCCNNNNNNNNNNNNNNNNNNNNNNAAAGN  
ACCTGCCCCGGGCGGCGCTCTAAACCAGGGGGATCCCCCGGGCTGNAGGAATCNAAT  
CAAGCCTAATCGAAACGNNACCCNCGANGGGG  
Sequence 535  
NGGGCAAAGGGAAGNAACAGACACACNCTNNTGGGGGNGGATNAAACCCGGGACCAGAGG  
CTCAGNGGNGGGAGAGANCCCTGCTTACCCACCAACCAGAACGNGGCCCGCCNAGAGGCT  
GGAACNGAGAGAAAGAANCNGGGGCTGGCNNAAGAAAANANAGACANNNCACAAAAGCC  
NAGTNCATNTTTNNTTNCNGNGGGACCGNNCACCCGCAGAAANANNNCACAAAGGCCG  
CCGGNCAAACGGGGGGGAGCACGGACNGTCAGGNCNCNGGGAAGGGGGCAGCGCAACCCG  
CAGGGCNCNCNCCCCCNNGCCNNGGAGAACCAGGGCCCNNCNAGGGGGCCNAGGGAC  
CGCCAGGCNNGGNCAGCCAGGAAGGCCAAAANCAAGAGGGAGAAGGAGAAAGGNGNAAAA  
AAGAAAAAGGGGAGGNGG  
Sequence 536  
GGGGANCCCGCGGNGGCANATTGGGGGGGAACACACAGCAAAGANACGNNACAGCCTGAG  
AGCTTTCCTTGGGGGGGCTTAAACCCCCGNCCGNCCATCTATCCATCCATCTGCTCAT  
CCNTNCCTCCATCTGCGCAACAAACGCNAGAGAANCAATCCTTGGGGCAGATACTGGGGC  
TGCCCTCAAGGAGCTNNNATAGAGGNCAGGGGACCTTTGNCGCTNTTTNNCTAGGGGANC  
Sequence 537  
GGNCCCCCGGGCTGCAGGAANNCGANATNTNCTTTAGGGNGACCAAAACCCCC  
Sequence 538  
GGCACCCCGCGGNGGCCCTNNGGGGGGACAACNCCGCGCCCGCCAGNAACAGGCCACAGCC  
CAGAGCTCNNTCGGGGGCNAAAAACCCGGACAAGCNGCANGCGGGGGGACAGGNCCTGCG  
GGNCNTGGAACACTGGACNGGATGGCACANGAACCAAGAACTCCGCTCCGNTTGGCTGCC  
CAAGGANCCCAACNCATNCTAANCAGCGANCACNGAGGAAACGCNTTTTANNCCGAG

Table 1

GNACNANNNCANAGAACAGGCCNACCGCAAGGGCANACCAAGAAAGGGGGGCGNAAGGAN  
AGNNAGGGGGNAACAANGNACCANAGGNCNCAAANGNCNGACANNANCNNNACCCNAC  
CNCNAAANGCCCNCCNTNNCACAANANCNNNCCNGANNGCNGNGNAANAGAAAAACAA  
CAAAGACANGGAANNACCGGGCANANNAGCAGAACCAAACCGGAAAANGCANGGAGGGNN  
CAAAAACACCACCNACAGGAAGGAANAACCCAGAGGAAAAAGGCCGAAAGAAAGAAACCG  
AAANANAAGACCNCGGCCGAAAAAGCNNACCCAGGAGGAACCCACNNNCACGAAANCAGA  
ANNNCCCCCNCCAACCANNAACAGGGGGAAAAAANNCNG

Sequence 539

GCGATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTCTTTTTATAGTTTT  
TTTGTTTTGTGATTTTTTTTTTTGGTTTTGTGTTTTGTGTTTTTTCTTTTTT  
TTTGGTTCTTAGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGTTTTGCTCCCCCTACCTTTTTTTTTGAGTTATTCT  
G  
ATTGATTTTTTTCTTGGTTTCTGGATAAACCAACCTCTGGGGACAGGATAATAAAACA  
T  
GTAATATTTTTAAGAAGGAAAAA

Sequence 540

ATTGGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTATTTGCTAAAAAATGCT  
AATGATATCCAAACCATCAGCTACTTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCA  
A  
TTTTGGTGGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGGCAA  
TTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTAAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGAGTTAAGACCGGCCTGGGCAACA  
TGGTGAGACCGTGTGTCTGCAGAAAAATGAAAAGAAATTGGCTGAGTGTGGGGGTGCATG  
CCTATACTACCATCTACTAGGGAGGGTAGGATGGAAGGGTTGCTTGAGCCCAGGAATTCA  
AGGNTGGGCCACTGCACTCCACCCTGGATGGCAGAGTGAGATCCTGCCCTCAAATTTTAA  
ATNA

Sequence 541

TTTTTTTTTTTTTTTTGTTAAAGACACAAGTAGTGATATATCAACATCTGTTTAACT  
CGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTTCTTCTCCATTACC  
TTTTCTGATTTCCACTTTCAGTTTCCATTCGTTGCTATCTTCTGGTAGCCACAGCTC  
A  
GCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTTCTCTCGGCCCCCGCG  
CGGCCCCGGGAGTACCTGCCCCGGCGGCCGCT

Sequence 542

GCCGCCCGGGCNGGNACAAAATGTTAAAGACGTTGTTTGTATNTGTAAGGCTGGTGTATT  
CAGAGAGCATNATCTCTTATTCCTCACTTCCACCCCGTATTTGTAATGACCATGAT  
C  
AATGTTTNTACTTTTTGTNTAATGGGGTGGGGTGGAGTGGGGGCTATCTGAGAGTCANCC  
TGAGGTCTTTAGAGGACCANCTATTGTATCACCTTGGATACTTGAAGTTT

Sequence 543

CAAANACTTTGGCCANANTAAATNGNTGGAACANAGGTTTCTTTTTAAAAAAGGAAG  
GGTTAAAGAAGCCAAACGGTNGCTTTTNGGGGAANGCCANGAAAGAAAANAAGGGGGGA  
GNAAAAAAGGCCATGNCCATTCTNTGCCCCCTGGNAATGGAAGCCCCANGGGGGGNAC  
ACCAAGCNAAANNAAGAAAAGCCCCACCTTNATTCTTCAATTTTTAAATTCCTTTTA  
A  
CCAGAACATTCTTCTTTTGGCAACAAGNGGTCTTCCCCTTNGGGATTGGTCGGAAANAAA  
TCACCCATTGGAAGANTGAGAGAGTNCACTGGGAAAAGCGGCCACCTTATTCAGTCCCC  
TCCCCTTTCTTGGCGTNTGGCAACCAAAAGNTTNTCTGGCGGGGCGTTGGGGACCCCG  
TNTTCAAACCAAGTAAGGAAGGGGCCCTTTAATTTTTGGGGACCTTATTAATGGCTT  
N

Table 1

AGAAAAANGCAATNGGTAAGNNGCCTTTCNTTGNGGGNGAATNAAGGGGCCCCACGGAAA  
AGCTTTTCCCCCTTGGAATTGTACCCCGGCCGNAACCTTTTCCNAANGCCCCCTTNNC  
CCTTTANAAGGACCCCCCAAAGGTTGGNTNGGGCCCCCCC

Sequence 544

TCCGCGGTGGCGGCCGAGGTACCAACTTACTTACAAATTTAATACTGCTTCAAGGTAT  
TTAATCTAAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTTGTGTTAGTGATA  
TGCTTTAATTCGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCA  
A  
CAAATACCCAGTTCATTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAG  
TGACCAACCTTGACCTGCCCCGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGA  
AGAGTGCTGTGTTTGTGCTATATCCCTCCAACACCTAAGGCAATGCATTTACATC  
TT  
GCTGAGAGCAGATAACCTCAATACCTGGGAAGTAGAAAAT

Sequence 545

AGTGAGGGGTTAATTGCCGCCGCTTGGGCGTAATTCATGGTCATAAGCNTGTTTCCTGT  
GTGAAATTTGTTATCCGCTTCACAAATTCACACAACATTACNGAAGCCCCGGAAGCCAT  
AAAAAGTTGTNAAAAAGCCCTGGGGGGGNGCCCTAAATGGAGGTGGAGGCTTAAACCTT  
CAACCATTTT

Sequence 546

GCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAACCCAATAGG  
ATGGCCATCTGCCCCATTAATGCCAGCTTGTCCTAAGTGAATTATTAACAGTGCCCCCTT  
TCACTCTCCAAAGAGTNCCTTGTNCAAACAGNTTAATTGTGGAAGTCGCTTCAAGATGA  
CTGGGCGGGTAAAGGAAAGTGGGAGTGAGGGAAGCAGGGTAGGTGGAGGGTGTGAAAGGG  
AGAGGGCCTCATCTCAGGGTGGCTTGGACCTGCACCAGCATCGGCCTGCATGAAATGTGC  
TCCTACTCTTGCCCAGGCTGAGTATCAAAGAGAAGCAAGAAATCTAGATAAAAAATNCAA  
TCCAGAAACA

Sequence 547

GCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCC  
TTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGGGGGCACGAAGGCTCATCAT  
TCAAAATAAAACAAAATNACAAAAAGTTATTTAAAGGGCGAAAANGATTTTAAAAA  
ATTTTTGGCAATTTACCAATAAATTTTTTACCACCGAAAAAGCCAAANTGGCCTTANT  
A  
CACCCCTTCNCCCCNTGNTGGTGGGGACCTTTTGGGGGAAGGAAGGGNACCTTGGGGGNC  
CCAATTTTCTTCCCTTTAAGAAAGAAGGAAAAGTTGGGGGGGGTNGGGGCCCTTTTTT  
TAAGTGGAATNGGGGCTAAAGGGGGGAACCTTTTCCCCTTGTTAAACCAAAACCGCCAA  
TTTCNTCCAATTAATTTTTTGGGAAAATTGGAACCTTAATTTAAAAA  
ACCCAAAATTGGGTGGCNAATTCAAAAAAGTTCCCNCTCNGGGCCCCCACCCAATTT  
TGGTGGAAAAACCTTTTTTGGGGGGGGGAATNGCCTTCCGCGCTTCCCCAAAACNCNG  
NAACTTGGCCTGGTTCACCCCTTTTCNACCCCGGTTTNNCCAAGTTTTTTTTTAAAA  
T  
TCCCCCTGGGAGGTTCCAAAAGGCCCAAAAAAAAAAAAAAAAAAAAAA

Sequence 548

GGCGCCGGGCAGGTCCCTTTGTAATATCCTTTATAATAAACCAAGTAAATGCTGTTTCCCT  
GAGTCTGTGACCTGCTCTGGCAAATTAATCAACCCCAAGAGGGGGTGTGGGAACCCC  
AATTTATAGCTATTTCAGTCAGAAAAAACAAGGTAAGACAATCTTGGGGCTTGCGACTGG  
CATTGGAAGTGGGGGACAGTTGTGCGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTA  
TCTCTGGGTAGATGAAGTAGAATTGAACTGGGGGACACCCAGCTTGGTGTCCACTGCAGA  
ATGAATTGCTTGCTTGATGTCTAGGGAGGCCGAGAATTATAGCAGGGAGGTGAAAAGCA  
CTTCTTATATAGCAGTGGCAAGAGAAAAAGAGAAGGAGCAAAAGCTGAACTCCTGATAA  
ACCAATCAAGATCTCATGAGGCTCATTAACATAACAAGAATAGCATGGGAAAGACTGG

Table 1

## Sequence 549

NACCTCTCAGCCNCCCTGTAATTGCGCNAACTNTGGAAACGCTGCAACGATTGTGCGAGT  
CGTATAGCGTCTATGTACATATAGCATNTTCNATAGTCATTGGTGTAGAGATAGAAAATG  
CTTCGTACATGTCAATGGGAGAATGGGTGGTACCACTACACCGGAACTATCCCTAAGTCC  
ATCCGCCTGGGGCGAAAGGAAGGAAAAAAGA

## Sequence 550

NTATCTTGTTGCCTCATGNGGGCTACACCNACGCTAGNNAGCCCAATGAGACGTTACGAG  
CGCGCAAGTNAGAAACNAGATTTATAGAGCGCTTGTTGGGAGAGGGACATTCGCAAACC  
GCGCGTTTAAGTTACTCGTAGATATTGAGTANNTAAGGNCGTGGGGAAACGCAACCAAA  
TACTCCTAGAGCCTTTGCCGNAACAAGNTACTACANTTGTTTCNNGGGGGAACGAAGGTGCC  
CCGNTCAACCCNTTGGCCCCAAANAGCCCCAAGNCTTCNTTGTNNGGGTATGGCAA  
NNNCTTAACNGAACCACATTGGGCCAANGGNNCGCNANTGGNCCCCNTGGTTTTTATC  
NCANTAACCCNANCNAAATGGGCGNCNTCCATAGGNAAACCTTGTTCCCNATAGCCCCCTT  
NGATATTTCTCGGCATTTTNTGGCCCCNTTTTCGCTTTNTNTAANCGCCANTTACCT  
NT  
AGCNCCCCTTTTAGGCAACATCCTTTAAAAAGGGNGGGGAGGGGTGTGGGGGAAGGGGCT  
TNCCCCCCCCAAANGCCCCCTTTTGGTGTCTGAATTTGGCAAGCCCTTTTGGNAGGGAACNA  
AAAGGGGGGGGTGGGGANAACCTCCGGCCCCNACCGCCCCCTTGGNCCCTTGGGTAAAC  
TCCAAATNGGGGGGANGGCAACNAAAGCCCCCTTCNTTGTNGNGNCANTNTTGGGGNA  
AAGAAGNACCCCAAGGNAAGTGNNCCCACCGGGGGGTTNANAAANAAACCCCCCAAAGC  
CACCCAAGNGGAACCTACCCCTTANAACTTTTTGGNATTANGTTNTAACNAAANNACC  
CGNCCAAAATTTAAANAAAAANANAAGGGCGGATTTAATTTTTTAAATTCNTTGNCCCA  
TTNNGGGGTGGAAACATNTAAACAAATNTTAAAA

## Sequence 551

AGTGGACTNTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGTC  
T  
CTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGNTACTNGGATGTGA  
AA  
CTCTCCNTTTGGAGATGAAACCATGGCGTAAGTAATATAAAGACTTTTCCCTGTAGTT  
AT  
CTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCCATCTCTTGAAA  
TATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAAAAGGACCTCAGCAAT  
GGAGAATATCCCCATCATCACAACGTGCATCACTCTGCCGCACGTGATTGTGGAGAATAT  
CCCTCTCCNTGTGAATGCCAGAATGAGATTCATTTACAA

## Sequence 552

GGCCGGCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGTATTCAGACAGATAC  
AGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTA  
AATGCCTTGCTTTGCAAATGTTTTATNTTAAATCATTAAAGGAAGGGAACACTTTT  
G  
CCTTTAAATGNTTATCAAAAGAGTTTTCTAACCAAGGNGTAATACCCTTANTTCTTAAC  
A  
TTTNTTTTTCTTTATGTGNTAGTTGTTTTCATGCTACCTTGTTAGGGGAAAACCTTTAT  
TTACAAGACNCATATTTANAAAAGGGCTANATTTTTTAAATACTCAANATTAATATTTAA  
AAGGTTGGCTCCTNGAATTANNAGCCAAGNAAAATTANTATTTTACCAGTTTTTCAATT  
T  
CCCAACNANGAAAATAGGCCATTTCCCATAAACCCCAACCTCCCNANAAATGNAACCCCA  
AAGGGGCCAATTATTTATTACGTTATTTTTTGGGGAAGGGGGAAANTCCAANNGGGGGT  
T

## Sequence 553

CGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG  
GAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTA

Table 1

CCAGATTACACATCCCCAGTGGTGCTTCCTTACTTCGAGCGGGCCGCCCGGGCAGGGTA  
 CTTACACCAAACACTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATA  
 TCCACATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAATATAAA  
 AGGAAGAGAACAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAACAG  
 GGGAACTTTTCGTTCTCTTCCTGGGATGTCTACTTAAAAATCCCATGTGGGTACCT

Sequence 554

NCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGATTGAAACAACAATAC  
 ATTTTGCAGTGTAGTAATGGGAGCACTAACTCTTACAACAGTTAGTGAATCGTTTTAAA  
 G  
 AATCAGTTCAGTGTAGACATTTTGAAAAGATTGTTTCCTGTGCTCTACGATAGCTTAGT  
 G  
 CAATGTGCACTTCTGTTTTACTTGCCATTTTCCTGCTCTGTTTTCTCTGTGACATGAAG  
 C  
 AACAGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTTCT  
 G  
 TGTACATTTACATTCAAGTTTGATAACACTGGTGGTTTCATTTCAATACAAATTATGCTA  
 GAGAACTGACATTTTCANACATGGTGATATATGCTATTTGAATTCCTTTATCTTGATA  
 CCAGATCTTGGATTGTGAATCTCTTGATGATAGATGTGCAGCTAATTTTGTCCCGAAA  
 CT

Sequence 555

GGGTGGCGGCCGCCCGGGCAGGTACAAGACCATGACACCGCCCAAAACACTTCCTGCAGA  
 TGTTGTCGTTGGAAAAGTGTCTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCT  
 TGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTGGCCAAGAACCCCCATTGGGGGATAC  
 AGGGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGT  
 GTTACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGA  
 AGCCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGG  
 GATTCTCTGTCAAGGCATTAGAGAATCCAACTGTAACCTAAACACCTACGGTTGAAGA  
 CCTATGAAACTAATTTTGGAAATCAAGAACTTTTGANNGNAAGTGAAGGAAAA

Sequence 556

GAGAGCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGCAGCTGCAGCAAA  
 TCTCAAAATAAAGAGGCAACGGCCTTCTCTTCTCCTCATCTCTATAGCACACCTT  
 T  
 TATTTCTTTTCTTCTTTTTTTAAGCCTCACGAAAGATTTTACTTGTAGATCAACTTTCAA  
 AATGTAGGAAGTCAGAATGGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAA  
 GTGAAGAACCCAGAGCACNGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCGT  
 CTGGGCTTCAGAGGAGCCAGCCGCCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGT  
 CCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTGCTNTTCTCTGGA  
 GG  
 GTAACCCAGTTTGGTCCACAAGGGCTT  
 G

Sequence 557

GAGCCCGCGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAGATTTTGA  
 CCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTGTCTACTGTGGGGACAAC  
 TGGAGTGAAACTTCGGTTGCTGGCAGGTCCGTGGGAAAATCAGTGACCAGTTCATCAGA  
 TTCATCAGAAATGGTGAGACTCATCAGACTGGTGAGAATCATCAGTGTCTATCTACATTCGA  
 GCGGCCGCCCGGGCAGGTACCGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
 GGCGCTTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGGTTC  
 GTTGCTTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

Sequence 558

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTTGTGAGACGGAG

Table-1

T  
CTCCCTCTGTTGCCAGTCTGGAGTGCACGTGGCATGATCTTGGCTCACTGCAACCTCCA  
TCTCCTGGGCTCAAGCGATTCTCCTGACTCAGCCTCCCAAGTAGCCTGGGATTACAGGNT  
GCCTGCCACCATGTCCCGGCTAATTTTTGTATTTTTAGTNAAANACGGGGTTTCACCA  
TA  
TTGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCCTCCCAAAGT  
GCTGGGATTACAGGCCCCGAGCCACCGNACCTGGCCTGTATTCCCGCTACCTGCCCCGGG  
NGGCCNCTNTTAGAACTAGGNGGATCCCCGGGCTGCAAAGAATTCGATATTAAAGCTT  
AATNCNANTNCCGTGACCTCTAGGGGGGGCCCCGG  
Sequence 559  
CGGGTGGCGGGCGCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCCTGCTTTTGGTT  
CTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCTGTCGCCCTTCTACCTCGCTGTTTCGG  
TTTTCTGGCTCCTCGGCCCTTTTCTCCCTGTGTCAGCTGGGAGCGGACGAAGCCGCGA  
AGCTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAAT  
CATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCC  
CTATATGCCCTGTTTTCTCAGTTTGGTCATGTGGTGGACATTGTGGCTTGA  
AA  
Sequence 560  
GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATCGGCA  
A  
GCGACGCTCATACANGGCNTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTTCAAGT  
GTCNATGATCAATGTGTCCTGCAAT  
Sequence 561  
CATGTGGGAAGCGCTGTGAAGAGTTGTTGCCTTNCAAGATATACTCCAAATCCCAGTTC  
CAGCCCGTGTCATTAAACTCCGCTGGCGTGAAAGATGACATCCTTAGCCCAGCAGCTGC  
AACGACTCCGCCCTCCCTNAAAAGGGGGATNCCAGCCTTTAATNTANAGATGAANTTTG  
CCTTCCTTTGNTATTTT  
Sequence 562  
NNNAGCCGGTATTCANCTCTACTTCAAAGGCGGGTAATNACCGGTTTATCCACAGAAA  
TCANGGGGGAATTAACCGNCAGGAAAAAGANACCATTGTTGTATGCCAAAATAGGGCNC  
ATGCTAAAAATTGCNCATGTGGAAACCCCGTTTAAAAAAAAG  
Sequence 563  
CGATAAGCTTGATATCCGAATTCCTTGCAGCCCCGGGGGGGGATTCCCACTTAAGTTTTT  
TTAAGAAGCCGGGCCCCGCCCCGGGGGCCAAGGGTTACCCCCGGGGGGGGCCCCGGG  
AAAAGTTTGGGAAAAAAAAAAAAAAAAAGGGTTTTTTTTTTAAGGTNGGGGCNTTTTGNA  
AGGGGTNTTTTCCCCCCCCCAAAGGGAAANACNCGGGGNNNCCCCNGNCCANAACCCG  
GGGGGGG  
Sequence 564  
AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACACACACAC  
ACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAAAAGCAAAAAAAAAA  
AAAAAAAAAAAAAGTCCCTGCC  
Sequence 565  
NGACCTCGGCACTNAGCANCGNCACTACTTAGGGGGNGTTAAACCCCCCCCCCCCCCN  
GNAGAAACCNCNGCGCCATGAGNTNTCAAGNGGAGGAAGAAGCGACCCGCGCANGCTGAA  
GCGCAAAAGAAGAAAGANGAGGCAGAGGGCCAAGNAAACCGNNAGCNGNNGCACCNGG  
AGGCNTTNTNGNNTTTGNNGGGNGGAANGCNGACGCCCNNGGAAGNANGAACNAAGAAG  
CG  
Sequence 566  
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGACTGGAGGACCTGTCTGG  
TTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTG

Table I

CTCAGTCTCTGCCAGGGGAAGATTCTTGAGGAGGCCCTGCAGCGACATGGAGGGAGCT  
GCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCATTTTCTTTGTGTGG  
GA  
GTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGTGGGACAGATACT  
GGAGATCCTCAAAGTAAGCCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC  
AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTG  
CTACTCCTGCTGAC

T

Sequence 567

GTTTTGGGGGAACACCGCGGNGGCGNTTTNGGGGTANACCGGGCCACNCACCANCNNCAA  
GGNCGAGGNNNNNTNNNTTNGGGGGGTTAAACCCCNCCCCCNCGGGCINNNGNAGGCCG  
NCANNANTTTTTAGNNNGGGGGGGGGGNGGCCNCCGAAANCCCGACCTGNCCGGGC  
GGGCGTTNAGAACNAGNNGANNNNNGGGCNGGAGGAANNNGNANNAAGTTTTTTTTT  
TTTTNGGGGGGNNNGGGGGGGGCCCCNTAAAAAAGGNCCCCNAGNNGGG

Sequence 568

GCGGNGGCGGTTTTCGGNCGAGCCCTCTCTGNCCATCTTCTCCCGCTGCTGAAATTTCT  
NTTGCGGGCGCTGNAANCCAGGACCCCNCCCCCGCGTACGCTGGATAGCCTCNTGGCC  
AGAAAGAGAGAGTAGCCGCCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCGA  
ATGCTGGCAGCTTCAGGAATCCCCGCGNACCTGCCCNNTGCGGTCTGTTTCGN

Sequence 569

ACAAAAACCCAAACCCAGACAGCAGNAATGNCAGAAAGANCCANGGAGAACAGCAGAANC  
TNACACCGCNGCNCTCTGAAGGCTGAGAACACAAGNCAAANACATNNAACTNAAAAACAA  
CCGCTGAGAGAACACGGGGAAAAATNTNCANTTTAGAGANGNCCACAAAAAGGACACGC  
AAAGGGGAAGGGCAAGGCGGNGAGACAACGACGNNANNCNNGGGAAGACNGGGGAGGGGG  
NGGAGAAGAGCCNNGGNGGCCAGAANNCCGGNCGGAGGNCACGAGGCGGNGACCCACAAG  
GGACCNCGCCGGGCGGNCGGNCNAGAACNAGGGGAACCC

Sequence 570

GCGGGNGGGCCGGGTTTTTTNGGGGGGGGCAAACCCGCCNGGGANGGAAGGAAGGAAAAA  
ANGGGGAAGGCCAAGGGNCCGATTTTTTTNGGGGGGGGGNNNAAAAACCCCGGGNG  
GGGGGAAACGGGGGNNNNAAAAAANGGGGGGGGNAATTTGTTAAAGGGGCNNAAA  
AAANGGGGGNAAANCCNCAAGGGGNGGGGGGNNCINNNGGGGGGGGGGGAAAAAAC  
NNAAAAANNNNGGGGGGGGGGNANAANNNNNNGGNNNCCCCNNGGGGAAAAAAAAC  
CCCCCCCCCCCCNNGGGNGGNAANTTTTTTTGGGGGGGGGGGGGNNNNAAAAA  
CCGGGGGGGGGGGGGGGAAAAANCCCCCNAAAAAACNACNCCCC  
CCCCCNNGGNGGGGGGGGGGGG

Sequence 571

CGGTGGCGTTTAGGGACCAAACGATAGCNGTTCTGTTTAAGTAGGGACCTCTCATGGTNT  
NCAGGCTNTGACAACCGAGAATCAAACCTGGAGAACATTCCGAAGCCGTTCTTATAAGNGT  
CTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCCAGCCTGGTCTTGGGT  
GTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATTNCTTNGACCTAAACGGGCGA  
TGATGAAATAAATCGAGCGGCCGCCGGGCAGGNACATCTGTGAATGTGAATGCCAAAGC  
GAAGGCATCCCTGAAAGTCCCAAGTGTATGAAGGAAATGGGACATTTGAGTGTGGCGCG  
TGCAGGTGCAATGAAGGGCG

T

Sequence 572

TGNAANNCCCCGCCACGGAAGGNGGCCCNAGCCAGAGCTCCAGCAGCCCNGGGAG  
GGCGGGGCCCGAGGCANGGANAAGNGGGAAGGAAACGAAGAACAGGAGCAGAANNGAAG  
AAANACAAAGNGAAANGGGGCCAGNCAGCATGTGAGAGACNGACCACAAAGCCCCACNN  
CCACNGAAAAAAGGNGGGAAAAACCCGGAANNAAGGAAGACCCAAGCAACNNGNNN  
CNGGCAANGAAAGCAGCAAAANAGAAAANGAGGCCAAACCAANGGCAANAAACACCG

Table 1

## Sequence 573

GCCGGCGGCCCGCCCGGCAGGAACANAGCACTNAGGNGNGNCGGAAACNCGGCANGGGAC  
AGGACANAAAGGAAAACANAAAGANGCAAGGGGACACGACACANANGAAAGGNGAAGGG  
CAACGNCGACCAAACGGGGGNAGAAGACAAAAACCAAAA

## Sequence 574

NGGGNGGGGTTNTTTGGGGGGGNAAACCCACAAANAATACNGGGAAGGGNGGNGGNNGG  
GGNNGGAATTNTTTTNGGGGGGGNGGTAAAAANCCCAAANCCCNAAAAGGGGGGGGGGGG  
GNAAAGGGGNAAAAAATTTTTNGAAAGGGGGGGGGGGGGGGGGAANNCCCCGGGGAA  
AANNAANGGGGGGNGNGGGGGGGGGGNNNNNNNAANNANNNNANGGGGGGGGGGGGGNN  
NNAANGGGGGGGGNNNNNNNNNNNAAANTTTTTTAAANTTTTTTTTGGGGGGGGGGG  
GGGGGGAAAAANCCCCNNNGGGGGGNGGGGGGNNNNNGGGGGGNNNNCNNNCNNNNNG  
GGGGGGGGGGG

## Sequence 575

GGAAAANCACACGCCAGGAACCNNGCAGCNNACAGNGACAGAAATTNGGGGGGNCGANAA  
ACCCACNCACCCCGANNNCNGGANCNCNAGGGAANGAGTTTNAAGCNCACCGGGNGGCC  
GTGGGGGAGAAACNNANGNCCACAAGNCACTGGGCACAGANAAGAGNGNCCGGNCNCAA  
AACNCACAGGGCNCAGGGTTNGCGTGNTTTTGGGGGGGGGGANGGGNNACCCCCCGGAA  
AAGAGGGCNGGNNANCCGGGNNCNCNNGGAGAAAGANGGGGANNACAGNCCANGACACN  
ACANGGNAACANAACNGAGNNNNCAANNNGAGCAGNAANNCGGGGGNC

## Sequence 576

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCTCCCTAC  
TGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCATGAAGAGCCTGATCCT  
TCTTGCCATCC

## Sequence 577

CAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAG  
AGGCGGCGCTGGCGTTGGAGAGCGACGGCGCCCCCGCGTAAGCAGTGGTAACAACGCAG  
AGTAACGCGGGAATGAAGAATCTTAGGCGGTGCACCCAGTTTCCACCATGATTAAGGGT  
CTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCAATTTGGGACAGAATGGA  
ATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGT  
GCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATAT  
CATTTCACTGTCTAGGCTACAAC

## Sequence 578

GCGATTGGAGCTCCCCGCGGTGGCCCCGCCGGGCAGGTACCTCACAACGAGTTCAGTCAG  
TAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTTCAAGGTCTCACAGTCCTGATA  
AT  
CTGGTTCTTCCCGAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGCACAGGGA  
ACCAAGTGACAGAGGTATCATTAAACATGTCCATGTATTGNGAAGTCTGAGGAACTCAA  
GCTCCTCCAGTCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTT  
G  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGG  
CATCTACTGACCAGTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAGA

## Sequence 579

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATCCCAA  
TTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTGCCAGGAGGAAGAATGAGT  
CTACTTTNGANACAATTAAGTCATGGNCCTCTCTTTTTTTTTTTTTTTTTTTGGCT  
ACNTAGACNTCTTCTCATGTATTGTTACTAGAACAACTTNTATAGGGTTTATGGTTN  
G  
GGGAAACATTNNTAAAAAATGGACTNATCTCTATTATACAGANNNTATAATATAAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTNCNCTGTCANCTGTTGAAGAAN  
CT

Table 1

TTCCTATTTAAGCTTATAGGATGAAAATATATAATTAAG

Sequence 580

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCAAATGCTTCCCTGGTCTTGATGAT  
CTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCTCCCCTTCTTTCTTTGAA

TG

GAATTAACCCAATTTGAAACAACATTGACCCAGTCAAAGCTTCTAATGGTTTCTTT

T

TCTTCTCCAGTTTTAGTTTGCTTTTATTAAGAAAGAAATAGTGCATGGCCATAGCT

C

CTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGA

GGGGAATGCGTTGAACTGGGGCAAGTACCTGCCC

G

Sequence 581

CGTTGCGCTCACTGCCCCGCCTTTCCAAGTCGNGGNAAACCTGGTCCGTGCCAGGNTGCAT

TAAATGAAATCGGCCCAACCGCCGCCGGGNAGNAGGGCCGGTTTTGCCGTTATTGGGGG

CGCCTCTTTTCGCTTTTCTCGCTTCACTTGACTTCGCTGGCGCNTCGGGTTNCGGTTT

CG

GGCTTNGCNGGTTCGNAGGCCGGGTANTTCAAGTCNTNAACTTCAAAAA

Sequence 582

NTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTGTTAAATACTCGNAGGCCTTTAG

GAACCTGTGACTGANTNCATAAATANCAGANCTATATTGTGATGNTGGTNAAGGACAN

GTGCTCANCTTCCAATTACA

Sequence 583

ACCCTCCTGGAACCGNAATAAGTTNNTGGGGGGGGTNAAACCCNNGNCCACNGAATNNNC

GGACCACANGANCNAACTNAAGGNCTAGCTCANAGAAAGCAAGNGNCAAGCNGGGCANT

AGCTGCTGCTTCCCCTGGNGGAACATNGCCTGCTNCCTCATAANCCATNNCCAGACAAGC

AAACATTNGTTNGGCAAAGCCGACANCNACNCCAACNACAAGAGACACTAAAGNGCNNGC

NGGGGGGGCTNCCAGGGGAGANGAAANGGGAAGNCGGGCNGCAGCAACNCGGNCAAAAA

AAACACCAANNNCNCGGGGCNCAANGGCACNAANCAGAACGGCNCGCCCNNGGGANCCAC

AGCNAAGAACCGGCC

Sequence 584

TTGGTTATACAACATTTGTTTAATAAATGCANTTTNCAAAGCTACACANGACTTAGATA

T

TGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACTCTAATTCTTACTACCCTGGC

CAAGAAAGCATTTTCACCTCCTGCGCTTTCCTTCTGTGTGCTTGTTGGTTGTTCTTT

CT

TCTCAGGCTTTNTNATTCTGATGCTGAGATAGTTCTGTTCACCTAGCAACTTGGGACA

GT

GACACAGGGTTTGTTCTGTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCT

CTCCAACCATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACATACT

TCTTTGCAGCGGACAAATACTGGA

Sequence 585

AGGTACCTGGGCCACCAAACACAGCTGGAATCAATATATGGGGAAGGTAAGTGTCTCAG

TTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGATTCTGGTAGTCCAAGCTGTC

TCCGTCTGGTGGCACCCCAATTTCCCTGCCTAGACCCACCTCTTCTCAGCCCCCTT

CGCCTGCCGCTGAAAAGTGAGAGCGGGCTCTTGCGTCCCCCGCGTACCTGCCCG

Sequence 586

GGGGGNNAAACCCNGAAGANGCGGNNNACGCCNNNCAGAGCCACANNATTTTGGNCGA

AANAGGGGNCCAGNNCCGAGGAAGGNGGAGGAGNCNGNAGGNACCNNGGCGGNNNAGA

ACNAGGGGANCCCCGGGCNGGAGGAATTTTNNATTTTTTTAGGGGGGNGGGGNNCCC

CCGGGGGGGACCGGGACCCAGNNNCCNGNNNNNGGGGGGGG

Table-1

## Sequence 587

ATTGGAGCTCCCCGCGGTGGCGGTGCGGGTCAGCTTTAAAGCATCATAATGACTAATTATA  
GGTGAATAATTTTACAGACAGTCTATATTCTAGGAGGCAGCTGTAGGCGTTTTAATTGGA  
AATAAGCATTCTGAGATAATGATAATAGCAGTGTAGAAAAATGAAGCTAAAAAATTCAA  
AGTGTTGAGAATCCTCCTGTCTTCTGGGATTTTTATTTTAAATCATCTCCTCCACAGAG  
A  
ACAAGCAGNACTTTTTTTTTTTTTTTTTTTTTTGGGGGTATTTTATGCACAAAGAGCC  
ATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACTTAGT  
C  
CAACTTAATGAAACCAATATCCTTCGCATAC

## Sequence 588

GAACACCGAAGAGCCAGANTNTTTAAGGNCAGAGAAANCCCCAGANNGCCGAGGNACGGG  
ANAAGAACCGGGAAGGGAANGAAGGACAGGGAAGAGACCAANGACCGGAACCCNCCCNCA  
GACTANGAACAAGCAGAGGCAGAAGCCAGGCACCNNGGNCNANGAANCAGACCAAAACAAG  
GATGNNAAGCNGNCNAAGGAGGAGAACC GCCGACAAGNANGACANAAAAGACGGCAGCCA  
GGNNACAGAANNNGGGGAGGCCNNAGNACCCCGGCCGNNCCAGAACCAGAGGAACCCCCG  
GGCNGGAGGAANNCGANANCAAGCNAANGAAACCGGCGACCCCGAGGG

## Sequence 589

GCAGAACAGACTTGCAGCCGACCAATTTTTGGGGGGATNAAAACCNAAANCCCCGGANTNC  
ACTTTTCCACTTTTTGAGGACANTGGCCAGGGGCNCTGGGCTACCCGATGACAAAGCAA  
NCAGCACAGCATCCCGAANCAGGGGAAGAGAGGGGGCGGACANTGGCANAGGAAGGAGAA  
CCCGAAGTGTNCCACAGGCNCAACNCTANNCCCGGGGGGGCGAANNCAAAACCGGCCGGG  
NAANNCGNAAACACTGGAGGAACGNAANCNCGGGGAAGCAGNCCCNGGCGAAG

## Sequence 590

GCGGNGGTTTTTGGGGGGCAACACGCGGGACNGCANGCCACNGNCNAGAGCNNGTTTTTT  
TGGGGGGAGAAAAACCCCGCCCCCGAACGCCGANCACCNCNGAGACCCACCTTGNCCTCA  
NAAACAAAAGGCCCANGCCCGGACCACNGCCCGGACCNGGGACAANCNGGACNANNNCN  
GGGNNNAANNNGGCGGAGNGGAACAACCATATAANAAATTNCCNCGGGNNGGGGGGAGC  
CGAAGAANNAACNAAAAAAAAAAAAANCCCNANANGGGGGGGGGGGANGNACCCNGCCCGG  
GCGGCCGNNCAGAACNAGGGGANCCCCCGGGCGGCAGGAANNCGANANCAAGCCNANCG  
ANACCGNCGACCNCAGGGGG

## Sequence 591

CGCCCGGCAGGTACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAANGATAAGAGCA  
AAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGCTTTATCAAGC  
AGAATTCCACCTGTATTTCTTAACCTGCCAGAGCTGAGTCTCATGGCCACCCCTTAGCAGG  
AGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTAT  
TGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAG  
G  
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGA  
CAAAGA

A

## Sequence 592

TTGAGCTCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTGGCCACG  
C

AATTAAAAAATTTTTTTTTTGTAAAGACTGGATTTGCCATGTTGTCCAGGCTGGTCT

G

GGATTCTCGCCTCAAGCAATTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGC  
ATGAGCCACCATACCTGGCCACTTCTTCATTCTTGTGGCTTTCGTNCCCCGATTTAA

AA

TTGGNGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGNGGTCATGGGTGGATCTCATGGAG  
AGAGGGCNAGGACAG

Table 1

## Sequence 593

GTGNATTGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACATAACTCCCGCAGGATCT  
CAGGGCCTGCCGCCCCATTATGATGATGTCGAGGTTTTTCATCCTGCAGCTGGAGGGAGAG  
AAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGAGTACC  
T

## Sequence 594

CGAGGTACAGGTGCGATTCTGGATGACAAAAGAAGATGCTTACTTCACAGAAATTCGAAA  
TTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCCAGGAATGTGGAGGAGAGAATGAA  
TGGCAGTCATTTTAAAGATGAAAAGGCTTTGTCGAGCGGCCGCCCGGGCAGGTACTTTNT  
TTTTTTTTTTTTTTTTTAAAGAGCTTTTATTGTTTTAGTAATCTAACATAACTTAA  
AATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCAC  
ATTTCTTGGGTCTGTTTCTCTATCTCTAAGGGCAGTCTCAAACCCCAAGC

## Sequence 595

TCACGGGTGGCGGCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGTTGGTGACAAC  
GACAGAAGGCTAAACAGGAAGGTAATCTTGTGCACCTGACAAATAGAAAGAATAAAGGA  
TCAAAATTTGAAGGCANGCTATAANAGTATCAAAAGAAATTTCTTAAAAACCAANAGTGAT  
TTTGGAAGCACAAAACTTACNGTTAACTGCTTNCCCAAATGTTCAATGATTGTGGCCCA  
AAGAACANTTTGNGGCATTNCTAAANTTTAGAAAAAATTGCNNATNTGCNAAAAATTTT  
TANAATNGGGANACACNACCTACCATTTTTTTTTTCTAAATCCNAAATTTCTCCCCCCC  
C  
TCCTTCCCAGAAANAGAGAAATTTTGNTNAAACCTTCAATNT

## Sequence 596

TGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTTAAC  
TAACTAAAAGCAGGAACCTCACTTATTTTTTGCTCCCTAGCCAATTAATAAAGTTTCA  
T  
AAAAAGCACTTGAAATTATATATTTAACCTGAAAAAAAAGTTGCTAAAATTTCAATATAAA  
TGTAATATCTTTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGTAAGTGGGGCAAAA  
TGTTCAAAAGAAAAATCATCCAGTGCACGTAAGATGGGGCACCCAAGAAGGCTAAGCCTT  
CCTTGNGCCGCGTACCCTCGGGCCGCTCTAGAACTAGTG

## Sequence 597

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTTGTAGTTAC  
TC  
TGATGTTTATTTAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAA  
G  
CAAAAACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTG  
GNGGCCAATACAAGTCATTGCCAGACAGTCCTTGGAGGCACAGAACAGCCCAGACCCAGC  
CAAGCTCTAGGAACCTCACGGGTCCCAAGGGGTNTAGACCNCTTGTCTNGATGCTCCGA  
ACCCGTAAAAAAAATGTGGGGAAGTTGATGAAGGCTTTTATGATTACTCATTATCCCC  
CGGTACCTNTGGC

## Sequence 598

TCACGCGTCCGGGGAGGTAGTAGAAAGGCGCTGGGTGTTCTAAAATAAGGCTCTCCTGGC  
CCACGGCTGACTGTCTTCTTGTGTCTCTACAGTGACCGTGACTCTGGACCCAGACACG  
GNCTACCCCAAGCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAA  
CAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCA  
TGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACC  
ATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAAT  
GGATTCTGGGCAGTGTCTTTTGTGGTATGGGAAAGAATATTTGGGCTTTTTACCTTCC  
CA

ATGACTGGCCTACCCCCCGNGGNCCCCCGGTTCCACCGGGGTGGGGGGAT

## Sequence 599

Table 1

ATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTT  
GGGGTTACCATTTCTTGGGGCACACTTGATTGAAAACCTGANACTTCTGAAGAGAAGGCC  
AGAAGATACAAAGACAGNCCATNCCAGTTGAATGCTGCTTCCAAGAACAGAAGAAAATG  
ATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG  
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATGTTGGAGAACTAC  
AGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCANACCCGGATGCACTCTTTNAGTTGGA  
ACAAGNGAA

## Sequence 600

AGGTGACACAATGGCCGAAGGCTCCATGGCGGCTGGCTTCTCCAGCCCTTCATGTCACC  
GCGCTTCCCAGGGGGCCCCGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCCT  
CCCTGGCTCCCAAGCCCCTCCTNCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGC  
ATCCGAGCATGGGCGNCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGG  
GGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCAACTCCCTCGCCGNCAGGCC  
TGCCTGCCATGAACATGGGCCCAAGGAGTTCGTGGCCCGTGGG

## Sequence 601

AGCNCNTNAGCTCGACGCGAAAAAAATAAATAAAAAATTAAAAAATCTGTGCAATAATTT  
TAAAATGTGCTCCCAGGAATAGACACAAATGTTTTGAGTATCTTTAAGCTGCATTTTC

C

TTTAGTGATGCATTTGTCAATTGCACTGAATTTAAATCTGAAAGTCAGAGGTGATTATT  
G

ATAGTACTTTTGTATTTTGATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTT  
TCCCAGCTGATTAAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGT  
ACATTTTATGATATTGTCATCTTTTCTGNTTTTTTTTTCTTTTTTTCTTTAGCTATTT  
TACTTAAGCATAATAGCCACAATAGGACATATAAAGATTATAAATACAGA

## Sequence 602

CAAGATCGGNGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGTAGGGACCA  
CCTCTAGATGCCTACTCGATTCAAGGACAACACACCATNTCTNCGCTCGANCTGGCCAAG  
CTGAACCAGGTGGCAAGACAACAGTCTCACTTTTGCCATGANTGCACGGNGGGACNCGGA  
TTCGCCGGAATNTGNACTCCAGCTCTCCAGAGGATGNAAAAGGCTANTGGGCAAAGTTT  
TGGGATGCCATTCTANCTCATAACCCACCCANTGAAACTNCAACCCNATTTNCAANA  
NAACNTTAAAATTGGGCTTGTNAATAAANTCCNNGNGCCGGCACAAGGGCCGCCCAA  
CCAT

## Sequence 603

GTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAG  
CT

GCTATGTATGGATTTAAACCGTAATCATATCTTTTCTATCTATCTGAGGCACTGGTG  
G

AATAAAAAACCTGTATATTTTACTTTGTTGNAGATAGTCTTGCCGCATCTTGGCAAGTT  
T

GCAGAGATGTGTGGGAGNCTAGGAAAAAAAAAAAAAAAAAGCCCTTTTTCAGTTTGTGTC  
CACTNGTGNTATTGGGACCCGTGTTAGNATTTGTATGCCAAGAATTTTCTTGAAAAT  
GG

AAAATGNTTTTGNNTTTAGNACCGNAGNATTCAATACNCCGGTAAAAGGCANGGNAAT  
TNGACCAAAAAGTCTTTGGCTTTTTTTCTTGGGTAATTGNTTTCCTAAANGNTGGTTA  
T

NTTGGTGGANCTTTTTTAACTGGTTTAATAANTTTAAATNTGGCCCCAAATTAATT

A

NAGGTTTAAAAAATNATTAAGGNAATTTA

A

## Sequence 604

CCCGCGTCCGAGACAATACAAAGTTACATTTTGGACCATATTAAAACCTGCAAGAAGACA

Table 1

GGGGTCTTACTGAAGATCTTTTAGAAAACCTAAATCCTGTCACAGGATATTTAGACATG  
T  
GTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGAGGGTGAAAGTTGAAACTGA  
CACATTTTCAAATTTAAGATTATGCTTATTTGTACAGAAAACAATGTTTAAACACCANA  
GGCAGNATCTTGTTGTANTGTATATAAACGCTAACACCAGGAGTTTTTTAAAAACCANAA  
ATTTAAATTTATTTTANGCTTTTAATTGGAAAGGNTTGGTTTTNTTTTCTTTCC  
GAAACCCTGGGAGTTATTCAATTAATTTAATTAACAGGGTNAGTTTTTTNAANACC  
C  
NAAGAAANTTAAGGCCAAGTTNGCCCCCTTTTCTTTTTTTTGN TAACCATTACCTT  
G  
GNATTTTGGGGAACC  
Sequence 605  
CTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCTGGCCAGATCACC  
TGAATCCAAATGTTCTATTAATTCAATACACGTTATCAAGTCAAATCCAAGCAAACGAGA  
GTCTCTCTCCACAACGGAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTT  
CAGAAAATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATT  
AATATCTACTGGAAGAAGCAATTCATGCATGGATTGACTTTTAGCAGCCTTAAGAGTGA  
AGTATCACCACATCCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATCCACTAAATTTT  
T  
AACGAACTGGTACCTGCCCCG  
Sequence 606  
CTNCCGCGGTGGCGGCCGAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTG  
GTTTAAAAATAACATTGGAATACAGGACTTGTTGCCAATTGGGTAATTTTCATTAGTTG  
T  
TTTGTGTTGTTTGATTTGAAACCTGGAAATACAGTAAAAATTTGACTGTTTAAATGTTGG  
CCAAAAAAAAAAAAAAAAAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTG  
CCACCGGTGCAGGTCTNTCCGNTCATCAAGCT  
Sequence 607  
CGGCCGATGAGAAGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAA  
TTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAGACTGTTCCAAAAA  
CAGTGGATAATTTTGTGGCCTTAGCTACAGGAGNAGAAAGGATTTGGCTACAAAAACAGN  
AAATTNATCGTGTAATCAAGGACTTNATGATCCAGGGCGGAGACTTCACCGGGGAGAT  
GGCACAGGAGGAAAAAAAAAAAAATAAAAAAAAAAACGAANGGTACCCTCNGGCNCGTT  
TTAGNAACTAGTGGGATCCCCCGGGGCTGCAGGGAATTTCCNATATTNAAAGCTTTTAT  
TCTGGANTACNCCGTCCGGACCCCTCGAAGGGGGGGGGGGCCCCCGGGTNACCNCAAGCC  
TTTNTTTGGTNTCCNTTTTAGTNGGAGGGGGGTTT  
Sequence 608  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACACAGACCTG  
TCGGAAGGTCTCTGCAGGTCCCCCTCCGCTCTGCCGATCGACTTCGCTCGGGCAGT  
CAACATACTGCCAAGGAAATCTGATGTGGAAGGAAAATAGAAATAGTGCAGTTTGCTAG  
CCGGACACGCCAACTCTTCGTTGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGG  
CAAAGTGGAAAAATGTGCGATGATTTCAAGCTTTTATAGATCAGCAAGCCATCCTGTTTGT  
GGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCTGCC  
TAGTTTTGCCATCCCATATGCCATTGATGTACCTGCCCCGGGCGGCCGCTCTAGAACTAG  
Sequence 609  
CGCGGTGGCGGCCGCCCCGGGCAGGTACTTCCGCCTTGCCGTTAGCTTGTTGGAGAACGTGC  
TTCTTATTCCTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCTAACTGACCGCGTTGC  
CATTGGCGACCTGGACTCTGAACTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGA  
GTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTA  
TGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTATTATATTATATGGA

Table I

AAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCA

Sequence 610

CCGCGGTGGCGGCCGAGGTACTGCGTTTTTTTTCTATTATAAAAGTGATACTGAAATAT  
GCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGG  
TTTTTAATATGTTTGATAACTTTAATAACTTCAGGGTGATGTCTGTATAATTTTAAAG  
TGCAGCTCTCTCTAACAAATGTGCCCTACAACCTCCTGATTAAACCGCGCTTGAAGGTT  
CAAAAAAAAAAAAAAAAAANGTACCTGCCCG

Sequence 611

GTGGCGGTTCGAGGTACTTANGAGAAATTGGCATGCTTTGCTAATNTTATGCAGAGGTAA  
CCATGTTGANNACATATGTANTGTTGAGAGGNATGTCTAATTTTATGGTCNTAGGAAAA  
TTAAAGAAAAGTCTGCTTTTCTGAAGTCTGAAATANAAATGTTTCAACTTGACNAGG  
ATCCATTTGGTGGCTAGNCTCGCCTTCCAGGGNGGNAAAGAGAATATGCCAGTTCTGTNG  
TATGGACTNTTACANAAGCTAAGGNAGGGNAGTTCTTTCTTGGTGGNGACAAGTTCC  
TGCNCACTTAATTTTCCNTCCTGNCTTCNAAACCTGGGAAA

A

Sequence 612

GAGTCTGGGCGGTGGCGGCCGCCGGGCAGGTACCAAAGAAGATGCAGTTCAAATACTG  
CCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACT

T

TTCTCACCACACCCACCTTCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGA  
ATCCACTCTCAAGCTTCTCATGCAGTGCCTATTGTATTTCTGCATAAGAAAGGGCTGCC  
TCTAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGT  
ATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGAATGNTTG

G

TTTCTCACTGTTATCTTCTTCTTCTATAATTAATTTATTTAATCTACAAATTGACATAG  
GGCTAAAAGCTTCAATATTTTACAAAATATTAATTAATGNAAATTGGTCCCAATTATTA  
GAACTTTTTTTNCATT

Sequence 613

AGGAAGNCCACTTTTGANGAGGCCATTNAAAANCNAACGGNNATGANCCCCCACANNNC  
ACTCNGAGGGGGAGGTANGAGNANNNCACCNNGGGGGCCCCGNCNGGGGAAAGGAAAGGCN  
AACNCCACGNCNGGGGCCAANGGCCNCGCNGGGNANNNACNNNACGAGAGGCCACCNN  
AACCAAAGAGCGANANGCCCCGGGGGNCCAAGAAGGGCNGCACACAGNACCTGCCCGGG  
CGGGCCGNCNAAGAACNAAGGGGGAACCCCCCGGCCNGGCANGGGAANNCGAAAAAAC  
AAGGCCNNAACCGAAAACCGGGNCGGACCCCCGGAGGGGGGGGGGGCCCCGGGGGAACC  
CCCAAGCCNNNNNGGGNCCCCCNNAANGGGAAGGGGGGAAAAAANAGGNNCCGCC  
CANGGGGCGGNNAACAAAGGGGGGNAAAAAANGGCCCGGGGANACCCCCGGGGGGGG  
GAAAAANAGGGGGNAAAAANCCCGNNNCAANAAAAANCCCCACCCAAACCANNAACC  
GNAGNCCCGGGNNGGCAAAAAAAAAAAGGGGGGAAAAAAGNCCCCGGGGGGGGG

Sequence 614

CCAGAGNTAACGAAACATTCTTTATAAAGGTTTGAACCCNCNGTTTNAAGCCAAANACCA  
TAATTTAATTACAAANGGATAAATATGGTAACGGGTATTTACAGAAGGAAGGGNGTTATT  
ACGGAAAAAGCTAACGGCACGACGTTTATTTTCCCCACAATCTTTCATACAGGAACCTA  
ACAAANTGAACCTGCAAAAGCACTAAACATCACATGTAAACCCAGCTAACAGAAAAATA  
CATTCACAAGCGTTGNTGGTGGGGGTGNGNATNGTGTGNGCTAAGGGNCAATGGGCNGAA  
GAAACAGAAGGGAGACTNTGGCACGGCTCAATTTCTTCCAGNCNANAGNTACATGGAAGG  
TTACAANCAGGGTGCCCCANAAAAAAGGNACACCACTANTCAATACCCNCCAATACAAAA  
AGAAAACCAATNTCTTCNCCANTACCTAAAAAAGGAAACCCGGGGTAAAC

Sequence 615

CGGTGGCGGCCCGCCGGNCAGGTACTTTNTTTTTTTTTTTTTTTTAAATTTCCATGTAT  
T

Table 1

NGCCTTNATCAAACCTATAAGCTGNGGAGTGGCCAATATACTCCATTGNGATTATACACTG  
ATTTCCATCACCTGCCTTTTTACTATCAACTCTTATTAGA

Sequence 616

CGGCCGAGGTACTGTGCCCTCTTTCTTACTAGGTGACCGAGAGTGGTTTTGACTCCTGTG  
GGTGCTTGAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACCTCT  
AG

TTTCTTCTATTTTCATCATCCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
G

TNTCTACTTTTACATCAAGTTTGAAGAATGCATTTCTCTTGNGGTATTCTGTTTTTTGAA  
CTTACTTCATTGGAGAAGCCCCCTTGATTTTTCTTCCCTTTATACCAGATCTGGCTTCACG  
A

AAGCTGCATTTAGGTACCTGCCCCGGGCCGNGCG

Sequence 617

GTGGACGAGGGCAACCCNACTAGCCTAAAAGCCCCGTGACACTTGCAGCAGGTGCTTGCCA  
CGCTTGACCCCGTCCGAAAGAAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGGCA  
CCCAACCGTGCAANTTGATGGTACCCCAAGCCCAAGCGACTGGNAAGATGTCTTTGGNAA  
AAATGAACCGTGGAANCCTGGCTTGGAGCCCCGANGTTCCGCGTGCCGGGCCAATTCAGCA  
AGGTGGCAACCGGGACTTGGGCCGTTCAANACCCGTGGACCGTTCAANATTCCTCAACCA  
CCANTAGCACTNAGTATTTGGCCATTGGCANAAAAAGGGGAATTGGAAAAACAAAACGNT  
NCCCCGNNTTGCTTTGGNGGGNGCAAAATTCCNCNGNGCAAGGTCGGCCCTNTAACTAT  
NTTTTAAANAAAAAA

Sequence 618

CCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGA  
GCCCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCT  
CTTGACATTTCTCGAAAATGGGAGAAGAAGATAAAATTGTTTATCCTCCACAACCTGCCT  
GGAGAACCTCNGCCAGCAGAAATCTACCACTGTCTGAAGACAAATAAAATATAGCAAAGAC  
AAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCAGGCCTTGCTCAG  
TTGGAATTCAATGACAAAAAAGGGGCCAAAATAATTAAGAGGTTCTTTTGAAGCACAA  
GATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTTGAGTC  
CACCTCGGGACCGAGGCCAGTGCCTGAAACGCATTCCGCTCCATGGCAGAGGTGCGTTTG  
GGGATCATGGAGAAGGTTTATTGGCATTATTTGTGAAAGTTGGTGGGAAGGGCCCCCAC  
CTTCACCTGAGCCACAAAAGACGGCAGTTTGCCCATGCCAAAGAGTATNTTCAGCAGCT  
TCGCAGCCGGACCATCGGTCACTNTTATGATGAGGGAGAATTNAAGACCTCCACAGNG  
NATTATATTTTGGCATTATTTTCTAAAAATAAACCAAAAAATTGGAAGCCAAAAA  
AAAAA

Sequence 619

TGGCGGCCCGAGGTACCTACTATGTGTCAGCCATGGGGGGATACAAAGATCTATAAGGCA  
CAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGG  
ACAATGGTGGGAAATGCACTCAGGTCTTCTAATGCACAGAGTATGCTCAGGCTGTGACA  
TCNGAAGAAAACAGATATTTACCTTAACACGGACTTGGAGGACCTTCAAAAAACAGTGAT  
GGGAGGAAATCCAGTTTTAAAAGTCTTGATTTAAAAAAGAAAAACACTTTCTGTGGATA  
AAGATAGGCTGCAGGAAATGTAACCTATGAAATTTCTCAAATTAGCTTTCAAACACACA  
CAAAAAATTGCATTTGTTTGAAGAGCAGAATGTAACCTATATTAAGAATAAACTACTA  
T

TTAGTATCTGAGTGGAAGTACCTGCCCCGGCGGNGCGCTCTAGAACTAGTGGGATCCCC

Sequence 620

GCCGCCGGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAAAGATA  
GATGGAAAGAGAAGAAATTAACCTAATTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAA  
ACACCAAAATTAACAGCCAGTTTTCTTGATTTTCTTCTTGAAGAAGAGATTGGTGTTGC  
T

Table 1

ATGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTG  
AGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAAT  
GTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCTTCCTT  
ATTCTCAAAGTTCTTTTTGGTTTGCAACCCTTTTTTTAGTAACCTGCAGAGGTATAAAC  
T  
GATTGTGCACACCCCCTGGTATTCCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTAT  
GATGGAAGGGCTTCCAGG

## Sequence 621

GGTGGCGGCCGAGGTTAAGGACGCCTGCCCATGACAGAGCCTCAGGAAATCGCGATGACA  
GTTTACAGCAGGAAATCCGTGGAGACAGCAGATCCCAGAAAGCGGCGATGTTTGCGTAG  
AACCTGTACCTGCCCCG

## Sequence 622

CCCGCGGTGGCGGCCGAGGTACATTTATTTAACATAAAAGGACAATAAGTTTACTTTGTA  
TCTGAACTCAAAACAAAGTAGTTGTATATTTAACATTCAAATTTGGGATTTCCCAATG  
T

GACACATCATGAATGCAAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATC  
TGTGTATAGTATATAACATGTAAAAATAGGTTGTATTTTACTGTATGTATGATGCTAAT  
CAATGAACACTTTATTTATTTTACAGAGAAAACCTATCTGTGAACCTTACTATATATCTG  
NTATTTTACCTTTATTTTTTTTTTAAATAAAAAAGGGTTT

## Sequence 623

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGGTCTGGCTAGC  
AAAAAGCTGGCTGTGTTATGTAAATAAGCCCCTATAGTAATTAAATTTAAAAAAGTT  
TTTTAAGCTGGCTGTTTTCTACCACTTCAGAGTCCTTGACCCCGTAATTTAGGGTCC  
CC  
TTCAGATTTGCAGACAGAAACAAACAACAAACAGTTAAGCAAACTAACAATGGTCACA  
CAAATTATACAATTTCTGAGTGCTCTAAGTGCATTGGAAGAAAGCTGAAACTCCATAAAA  
ACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTTGTTGGGAGCAAG  
TAAACTCCAAAAAAGAGGTGTTGTACCT

## Sequence 624

CCGCGGTGGCGGCCGAGGTACGGCGGGGAGCCGCCTGGATACCGCAGCTAGGAATAATNG  
GAATANGGACCGCGGTTCTATTTTGTGGTTTTCGGAACTGAGGCCATGATTAAGAGGGA

## Sequence 625

CTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAAACTTTGATCTTCTTTGAAATGTGGTT  
GTCCACTNGCTTTTCTGTTTCTGTACAGTAGCTATAAACAGCTGTTTAAGGATATCCT  
T

ATCTAAATTTCTGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTATCCTTCCAGC

T

CACTGGAGTCTCCTCNATCATAGAGCTCATCCCGCTACCTCGGC

## Sequence 626

NCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGAGTCCTAGGAGGCGCTGG  
CTCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTG  
CAGATGTATTGCTGTCCTTGAATATTAGCCCATTTGAAAACGCCTGGGAAGTTCAGCCAT  
CAGTATGTCAGTACCTCGGC

## Sequence 627

CCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAA  
AAATGTCCAAGATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTC  
TGTTTGTGACCTGTTTTAAATGAACCAAAACCAATCATACTTTTTCTTTGAATTTAGCAA  
CCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAA  
TTTTGNGATTCTATAAAACACATCATCAATAAATAGNGGGCAAAAAAAAAAANNAAAAA

Table 1

NNNNGGGGTNCTCCCTGATAAAGGGGGAATTTCCNTGCCCGTCCACGGGGGGTTGNCCCT  
GGAAAAANTTTGTTTANACCCCGGGNTCCCTTNTTTTTTAAAAAAGGGGGGGGCA  
ACCTTTTTTTTTAAAANGGGGGGNNTNNCCCCCGGGGGGGGGGGGANTTNCCCGGG  
GGGNTTNTTTTTTTTTTTNNAAAAAAGGGGGGGGGGNCCTCC

Sequence 628

GGNCGCCGGCAGGTACGCGNGGAAGACGGAGGCGGGTCTACAAGAGACGTAGGCTGTC  
AGGGAAGTGTTATTTTCGCGTCCGCTTCTGTTCCCTCCGCGCCCTGTGCTGCTCCGACTC  
ACATACTCGTCCAGAACCGGCTCAGCCTCTCCGCGCAGAAGTGCCGGAGCCATGGCGGT  
ACCTNGGCCCCGNTCTAAACTAAGTGGATTCCCCCGGGCTGGAAGGAATNCGNATTAAG  
CNTATNGATAC

Sequence 629

CCGCGGTGGCGGCCCGAGGTACAGACGACGTACCGTATATCTTCTTTTCGGCCAGTGGA  
GGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTTGAGATAAAATCTATGA  
TAAAGTTCTGGGTAAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGT  
GTGTCGGAACCAAGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTG  
GTGGGATCTGCAATTGCAGCTACTGTGCGGAAGC

Sequence 630

CGCGGTGGCGGCCCGCCCGGCAGGTACATAGTGTGCGGAACCTCAAATCGGCATTTAGAT  
AGATCCAGTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAGTGCAAAAAGATGTGGT  
TTACAAGTTAAAGCTACAGAATCCCTTTTGCTGTAATTGCACCAGTTTAAAGCCTCT  
G  
GCAGAGCAGATTGTTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTGTTGGCTAATT  
C  
TCCTCCCCTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATA  
CTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTT  
TTTAACTGTGTGAGATATTAACCAGCCCGCCCTGTTATAAAATCAGGAAATCCAAACAG  
CGATTTACACCGATTAAACACCCCTTTATATATTTTTTACAAAAATACACTGAGAAAATA  
ATCAAACGTTTTCATCTCTCTTGCTTTTTTTGTTTTTAAAAGTGCAAAAGTCTACAT  
TTAAATATAAAAAATTTAAAGTTAAACTCTAGCCCTTCAGTGAAGGAGACGTAAATGG  
CGTGGGTAAACAACACTACCAAAAAAAGAAAAAAGAAAAAAGGAAAAGGAAGG  
AATAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGG

Sequence 631

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCAGCTTGCCTCAAGTCTGGAAGAAA  
TTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGTAATACT  
CATGTGGCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACACTG  
GCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTCATCGTTGCAACGAATCT  
TTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGCAGGAATAGCAT  
C  
TTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAATGTTAAAGTC  
ATTGCTGTTTGCCATCGTTTGCCATCTCTTCTACAACAGGTTGCATCTTT

Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAAACAGTAAATCTACACAACTTT  
CACAGAGAGTGTGTCCGCACACATTCAACATCAGCTTCAAGGAGGGGTTCCGATTTTGG  
TGGTCTTACACCGAGGGCAACCTGATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCG  
CAGGCGCCTGTTTCAGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGT  
CCCAAATTACCTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCCAATCCTCAA  
A  
GGAATGAAGAAAAACCAAGAGCAAACTCAAAAGATGATTTTTACCATAAACCTCAAATG  
TGGCTTAACAAGTACCTGCCCCGGCGG

Table 1

## Sequence 633

GCCCATTTGNTGTTTGTGTTGTTGCTTGAAGACCAAGACGGAGTTGGGCCTCTTGATTCCC  
AGTGGCTGCAAGAACTGGGATTCCCTCTCCTTCTCTCTCTTCCCCTCTCCCCCGCGTACC  
TGCCCGGGCT

## Sequence 634

GAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGTGAAGCACTTCCAGAGTCTAAAG  
CAGCTCAGATGTTATCTCTGGGGGAATTAGTGTCCCCTCATTTAGCAACCTCCATACCA  
CAAGGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTC  
A  
TAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCA  
G  
TTTTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTCTTTACATGTGT  
ATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATAT  
A  
TTTATTCTAACTCAGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCT  
CATCTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGG  
CACAAATTTCTGGCTGTAGTCCCTGGGGCATTTCATTTGCTGGCCTCCA

## Sequence 635

NCTCCCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGTCTCTTA  
GACAGAAGTACATAAACACACAAATACAAGAGGTTATTTTCAAGACACACACTTGCAAG  
TAATCTTTCTATAGAAATGGCCACAGCATTATAATATTCAAAATATGGAAGATTGCAGT  
C  
TGAGGATTTTTANGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGAT  
ATGACAATCTACAGGACAAAAAGACAACATGTCACCAAATATTGTTATACAACAGCGTT  
AATGGAAGAACAGTAAACACCTTTTAGCAGTGTGCATGTTAAGTCTTTTAGTAAGATTA  
T  
CTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTAAACCACCACAGAACCAGG  
AATAGCACCCATCACTGCTGCTTTGTCACTCCAGAAAGCTGAAAGTCAACCCGAACAATG  
AAAAAAGTCAAAGAAGCATTTCCTTTGAATTCAGTCCTAAAAATATGAATGCCTTATA  
ATTAATTTCAAATAAGTATCTTACAAGTGTTTCATGAAACATTGGTTTT

## Sequence 636

GTGGCGGNCGAGGTCTAAAGGGCAAGGTTCACTACTACAAAAGGAAGTTGTCTAAAAGC  
AAGAATTCAATTAACNGCTGGGTAAGAAAAGTCAAAACACTAATGAGTTGTCCATGAAGC  
CACTGCTAAGAACGCGCTCACTATACCGCCGACATTGAAGACACTACGCACGAAGCCT  
TACTTGGCGAGTCTGAATTTCTATTAATAAGGGCAGAGTGAGGGAGAACAAGAGCCTA  
CTCCGTAACATTTTAGTATCCAGATAGTACCTGCCCGGGCCGGCCGCTCTAGAACCTAG  
TGGGATCCCCCGGGCTGCAGGGAATTTCTATATCAAAGCNTTATCGATACCCGTCGGAC  
CTTNGAGGGGGGGGGCCCCGGTACCCAGCTTTTTGTTTCCCTNTTAAGNGAGGGGTTAA  
ATNTGCCGCCGCTTGGGCNTAATCATTGGGNCATAGGCTTGTNTTCCCTGNGGTGAAAAA  
TTGNTTAATNCCGCTTCACAANTTTCACCACCAAACCAATACGGAAGNCCGGGGAAGCAA  
TAAAGGTNNTAAAGGCCTTGGG

## Sequence 637

AGCTCCCCGCGGTGGCGGCCGAGGTACAGGAAAGGAAGCACAGTTTGGAACAACAGCAG  
AGATATATGCCTATCGAGAAGAACAGGATTTTGAATTGAGATAGTGAAGTGAAAGCAA  
TTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAG  
CTAAAGTGCAAATCTTCCCGAATGTGTGTGCTTCAACCATGTCTGCAGTTCAATTA  
G  
AATCCCTCAATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT  
CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAAATCTAACTTCAT  
GGCCTCGCTGGGCTGTATTCCTTATATGATGCTGAGACCTTAATGGACAGAATCAAGAAA

Table 1

CAGCTACGTGAATGGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCAATAGA  
TTTTCTTACCAGAGTAGCTGGCTTGNCTTCTAATGATGATGNATTGAGAATTCAGCT  
T  
CTTT

## Sequence 638

CGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGAAAACCTAACCTTCATTTACTGTGAACA  
TCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACACCACACAGCAAGACCAAGCT  
TATGCTGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCT  
GAAATTGTTCTTTCTTAACTTTTGCATTAAAATCACATTTATTTTATAAAATAATGAAAA  
AA

## Sequence 639

CCCCGCGGTGGCGGCCGCCCGCNCNGGTACATGGCCCTTAATNCCATNAGATTGTAGA  
TCTTAACCACGGCAGGTCACCGAGGCCCTCGGAANTCCCTTTNAGCTCCAGCTTTACCCAC  
ATCAGCTGCTAGACGGGTACCT

## Sequence 640

AGACGATTGAGCTNCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGGCTGTCTCACC GG  
TGAGACCTGGAAGCGGGCGAGTCTCGTGTGTGTGCGGAGCTGCAAGTCCGTGGCGCTTGGCG  
CACCATGGAGTACCT

## Sequence 641

CCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGG  
AACATTGCTGTGGATTCCCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACT  
CTAGTTGCCCTCATGGGAAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTG  
GAATTCTGGAGTTATAAGGCAGAGGTCCCCCATCTTCCCGAACTGGCCTATTCCGCTAGA  
AGCAAGATGGCTGAACTCAATACTCATGTGAATGTCAAGGAAAAGATCTATGCAGTTAGA  
TCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCTCCAACAGTTTTGATT  
T  
TAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGA  
A

## Sequence 642

TCCCGCGGTGGCGGCCGAGGTACTTGGAGAATATTTCCACAATAGCCGATGACTTGTCT  
TGTTGACAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAGGTCCATTGCCGTC  
TATTAATGGAGATGATTCCATCTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGC  
CTTCTCTGCGCTGCTACCAGCCCTGTACAGGTCCCGGCGCTCTACCTCCCCGCGTAC  
CTGCCC  
G

## Sequence 643

CCCGCGGTGGCGGCCGAGGNACNAGAAGCTCACTGGCTGTGCTAAACCAAATGAATGGAA  
AGCGCCAAAAGTGATTTTATACCAAGGGNCCATNCATACAAATAAACAAAATCCTATCCT  
CTTCTTTCTATATNNTNTTTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTAT  
TCACTTCAATAGGACAAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCC  
AAATTTTATGCTTATTTTTGGGTTAGNCGCTATCAATTTTCTGACATATTAACATAGGCA  
GGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAAATGTCTTGAAGCACTCTGGCA  
AGTTACATGTATCCCATGTTGCTTTTGGNTTCCCATCTCTTCTTTGCTTCAAACCCCA  
T  
GCAAGNTTTTTNTTTTTTGGGCAGNCTGTGAATTTTCAACCTCCTTTTT

## Sequence 644

GAGCTCCCGCGGTGGCGGCCGAGGTACCCCTCTGGCCTCTCCAAGCAAGCAGTGAGGT  
GTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCAGGACATCCTGTC  
CGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCAT  
CTCTCTGGACTCATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTC

Table 1

CATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTCT  
TATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCAAA  
TTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACGGTCAAGTTTTTC  
AAAACCTTAGCAAAGATGCTTCCAGATCTGTCCCCGTCTGTGGGAGACGCCATCTTTCAAC  
CCATGTCACGTCCCCGCGTACCTGCCCCGGCGGCCGCTCGAGCCAGGAACCGTAAAAAG

Sequence 645

CCGCGGTGGCCGGCCGCCGGGCAGGTACTTCAGGGAGGCCTATATATTGGCACCCAAGG  
AATGCCAGGACTGCCACCTGCTGCTCCAGCGTTAGCCTCACTCGTGTGCTTACTCACTTT  
GACTGCCCTTTTTGTCTATTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAG  
CAGATGGCCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACA  
AGAAACAAAGTCATGAGAAATGCCAGGCTTCCTGTTACACCCAAAGACTGCTGGCCCTCC  
TACTCTATCCTTAGACCAGAACTTTTTCTTCTAAGCACTTGCTACCGGAAGGTT  
GA  
GGAGTCTTGTTTTACCGTACC  
T

Sequence 646

TCNCGCGGTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCCTTCTTGTTGGGCACTGTGT  
ATGGGCGGAGAAAATCCANCTTGTTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGG  
AGCCCAGGTTCACTGAAGATTGCCANNTGCCGATGGCTTCGCTCACCANGATTCTNNGCT  
TNCTNCTCCTCCATTGTCTGGCCTAAACTTTATCTTCAAATACAGACCATTGCTTGCTC  
A  
ANNGAGACCAAGAAACCCATNNGGTGACCACTAAGGGCAACTTATCAGNTTGTATTNCAT  
GAAGGGATAGGATGTCTTGATTAGGGTNGGAGAGTCCCAGGTAAATCTATGCTACTNCC  
CCCCTTAANAACCTNAGNNTCTNGCAACCCAAATTNTAAACNNTTGNATACNCTTGAAAA  
AAGGCATTCTGNCTTTNAGCNATCCGATTTGGCCTGTNCACAACTCTGGGGGAAAGAC  
TGGTCCAGTTGNNAGAAGGGGAGTTGGGAGCNTCCAGGTTTGAAAAAGNAA

Sequence 647

CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGTAGACACGCC  
TGGGTGACAGAGCGAGAGAGACTCTAAAAAAAAAAAAANGAAAAAGAACTGTTGAGGGA  
TACACAATATGTCAAAATATTAAAGCTTTTTTTTAAATTGGGAACNCTCAGGATAATTGG  
G  
ATAATTAATTAGGCAATGATNCAAAGATGTTTTGTTTTAAATTCANAACCCNCCAAAG  
G  
TNNAACCNNTNGNAANAATTTTTTGGGTTTCCCCCCCCCNNTTTTTTTTTNTNNNCC  
C  
CNTNAAAAAAAAAGGGGGCCNCCCCCNNTTGGGAAANNNTTTTTTTTTTTTNNNNGCC  
CCCCCNNTNTTTTTTNCNGGGGGGTTTTTAAANAAANGGGGGNAAAAAAAAANNNGN  
GTCCCCCCCCCTCNNNAAAAAAAAAAAAANANGGGGGGGGGG

Sequence 648

TGGCGGCCGCCGGGCAGGACTTTNTTTNTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
NATT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCNCGGGGAANNCCCCNTTNTNNGGNNTT  
CCCCNNNGGCNCCNANANGTNAANCCNNCNANCCNNGGGGNNGGGNCCNCCNNNNCCC  
NNNNGNNGNNNAANNNGGNTNNGNGGGNNGGGNAAAAAGGGGGGGCCNANGGGGNCCCC  
NCCCCNTTTNCTGGGGGGNAAAAANGGNCCCCCCCCCCCCGNNAAATTNGGGGNNNT  
NAAAAANANGGGGNCCCCCNNGGGGGGGGGNNAATNTAANANAAANTTTTNTNCC  
CCCCCCCCCNNGGGGGG

Sequence 649

TTGACTCCCGCGGTGGCGGCCGAGGTACACGATAGGAAGAATGTATATTCTGTGGTTGTT  
GGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTTTCATTTCAGGAACACAGATTGAGAG

Table 1

CTTCTGCTGTGCAGTAGGGGGCATCAATAGTTCATTTCTTTTATTGTCTGCTACCAT  
T  
CCATTGTATGGATTCAACCTAGTCTGTTTATTCTCCAGGCTTCCACCAGGCC  
AT  
CTCTTTCACCTTCGGGGGCACCTTTCCAGGGAGATGAAGAGACACAGGTTGGCCTCTGCT  
GGGACTCCACATGTCTCCCCGCGTACCTGCCCG  
Sequence 650  
TTGACTCCCGCGGTGGCGGCCGAGGTAAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
TAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTT  
CAAGGATGTCCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCAT  
GTTCTCCAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCT  
C  
CTCCAAGGGAAGCAGAAAGAGTGTTTTGGAAGGAATCATAGCCTTCTTCAGTGCCTAGA  
TAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATC  
AGGTGAACCTTCGTCATGTGGAAGGCACCATATTCTACACATTGTGTTGCCATCAA  
TT  
GGACTATGAACTAGGCAGAGAACTCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTC  
CAATAATAACTTAAGTCCCTT  
Sequence 651  
GACTCCCGCGGTGGCGGCCGAGGTAAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
TCCTGGAAATTAACATTGGCTCCACCTTCCAGCAATTGCTGGACCAGGTCAACATCTTCG  
TTTTGAACAGCTTTAATCAGCAAGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAG  
GACGTGGGTCCCTCCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACC  
TGCTACCACCTTTAGCCTTTTCTTGAGAAAATGCAAATTTATCTCCTAGCACTTAATC  
A  
AAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGCAGCAGTATGAAGAAGGAA  
CAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAACTCAAGACGTCTCAATTATTCCT  
T  
TGGCAGCCGCAAAGCCTGGAAGACTGCTTGCAGCCCGAGCAGTTTCTCCTGCTGCCCCC  
GCGTACCAGTGAGGAAGGA  
Sequence 652  
TTGAGCTCCCGCGGTGGCGGCCGCGGGGAGGTAAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
CTCCTGGAGCTGCAGGCGGCGGGGAGGGGCTACAAATGCTTGACTCAGTGATGCAGAACCT  
TTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGT  
GAAGAGGAGACCCCTTCCCTCTTGTGGGGTTTGGATCCTGTGTTTCTAGCCTTTGCAAAA  
CTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTGCCAGGTGTATTTTG  
TACCT  
Sequence 653  
TCCCGCGGTGGCGGCCGCGGGGAGGTAAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
AGGTCAAATCATTCGCAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACA  
GAGAGCTTTGTCTAGTTTTTGTCTTTCATAGGTCAAACTGGCAATATTCTCTTGTCT  
G  
CAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAA  
TTTCTGCTTCATCAGTTTTCATGTTTGTCACTGAAAAATGCATCTACTGTTT  
A  
TAGCTCCCAAGGAGACCCCAAATCCTTTTTTCTTTTGTGAGTGGAGTCTTGCTCTTGTT  
G  
CCCAGGCTGGAGAGCAGTAGCGGATCTCAGCTCACTGCAACCCCACTCCTGGGTTCA  
AGGTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTG  
Sequence 654  
GACTCCCGCGGTGGCGGCCGAGGTAAGTGGGGAAGAAGGTAAGAAACACGTTGAT

Table 1

ATAAAGCCATTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATGTGAATTCATCTG  
TTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCA  
GAATACTCCTTGGTCAATTGTAGGTATTCTTTTTGGTTTAAATTTTGCCAATGTAATTAA  
AAAATGGTATGTCATTTTTAAAATTTGTATTCTTTTCATTACAAATAAGATTGTTATGTC  
AGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTCTGTTTCATTGTTTTAC  
CTGTTTTCTGTTTTAGCAAGTAAGTACCTGCCCCGGGCGGCGCTCTAGAAGTAGTGGGAT  
CCCCCGGGCTGCAGGAAATTTGATATCAAAGCTTAATCGATACCCGTCGACCTCGAGGG  
GGGGGCCCGGTA

Sequence 655  
TNCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTTCTT  
CGTCGGCGCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAGTGAACAAGAATTA  
AAAGATGAAGAAATGGATTTATTTACAAAATATTACTCCGAATGGAAAGGAGGTAGAAAA  
AACACAAATGAATTCATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAAGAT  
GAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGC  
AGAGAACTGTTAGATAATGAAGAATTACAGAACTTATGGTTTTGCTGGACAAACACCAG  
ACACCACCTATGATTGGAGANGGAAGCCGATGATCAATTACCAAAA

Sequence 656  
CGGTGGCGGGCCCGCCGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACAGGGCTGT  
TTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGC  
ACAAAGTTTGGTCTGTTGCATAATTGAATTTTAACTCTTATCCACAACAACACTTT  
TTCGTGTCCTGCTGTGTAAAAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCAT  
NCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG

Sequence 657  
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCAATGAAGAATTTCTTCATTCTGA  
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAGCCTCGAA

Sequence 658  
CACGGGTGGCGGCCGAGTACCTTGTGGGCATTAGGTCANTNTTGTATACACTTTCACAA  
AAGATTTTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCACTTTG  
C  
GGGGGTAGCGGTCAATTCCAGCCACCANAGCATGGCTTGTAGGGGCNATCTGAGGTGCCA  
TCATCAATGTTCTTAACGATNACAGCTTTGCGTCCGGAGTAGCGTCCAGCCAGGACAAGC  
ACCACNCTTCCCAGGTTTCATGAACCTTGCCCATTTTCGGCAGCAACCACCCCGGGGCNCTA  
CAGCAAAAAAGGCCCCCGCTGTACTCTGCCCCGGGGCGGGNCCGCTTCTAAGAACTAG  
GTGGGANTCCCCCGGGGCTGGCAAGGNAATTTCCGAATATTCAAAGCTTTATTNCGATA  
ACCCGTCGGACCCTCGAAGGGGGGGGGCCCCGGGTACCCCAAGCTTTTTT

Sequence 659  
CTCCCGCGGTGGCGGCCCGCCGGGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACA  
GGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGA  
AAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACA  
A  
ACACTTTTTCTGTCTCTGCTGTGTCAAAGACATCAGATATATTACAGATTTTCAAACAG  
G  
TGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAG  
ATTTGGTTGAATGAACGCTAAGATGGCCAGACNCACCTCTTNGATCTCAACTCTGCAGCC  
TGGG

Sequence 660  
CCGCGGTGGCGGCCCGCCGGGCGAGGTACTATGACCTGAAGAGGGCAGAGGCCATCACTGTT  
GGTCCGGTCTCCACCTGGGGAACTGAGGTTGCACAGTGTCTCTGTGGTGACGAGCAGGG  
CTTCATCCAGTGCCTCTGTCCCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAG  
CAACAGGTGAGACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAACAATGT

Table 1

CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGG  
GACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAATCAGG  
AAGCAACAGCCATGCATTGGGGAAAGGAACCTCAGTGTTGTGTGGCTTAGTCTCCAGAC  
CTAACTTTTCTTTGGTACCTCGGGCCGNTCTA

Sequence 661  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGACGACTTTTTTCTCACCATGAA  
TGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCA  
TGGATGGACTCAAGGCAAAGGCCT

Sequence 662  
GAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTATTTTTATT  
TTT  
TTTTTGGNCNANANAAACNAGTTTTTTNAATTNATTNAGGGGGAANGNGGGGNGNCTTTG  
GANAANCCNCNNNGAGGGCTNTNNGGGNGTNTCCNGNGGCNNGGGGNNAGGGGTNNGGG  
NCTNNGGGNGGGTTTNAAGGGGCCNNGNCCCNNGGCCNCTNTAAAACNAGGGGANCCCC  
GGGCNNGNGGAATTCGATNTCAAGCTTNTNGANGCCNCCCGCCCGGGG

Sequence 663  
TCCCCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCNGCGCCTGC  
TCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGGCAGAGACAGACCAGGAA  
GGAGAGCAAGGCCCCCGCGTACCTGCCCG

Sequence 664  
TNCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCNTACTGG  
CTTNANGNGCNNNATTCCCTTCCNNGNCCCCCNGGGGNCNCNAANTAAGGGTTTNGG  
ANCCNCTNTTTTTNATCNCNCAGCANCTTAAATGCCTGGGAAGATGGTCGTGATCCT  
TGGAGCCTCAAATNTACTTTGGATAATGTTGCAGCTTCTCAAGCTTTTAAATCGAGA  
C  
CACCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGACGAC  
CACAGGCTGGGGAGTCCCCATTTTTCTCTTTGGAGAACCCAGATAGGATAGTCCACTGN  
ATGGGGAAAGGTGACCNAATGGAGGGGGACCACATNTTACGCTTGACAATGNATCCTTGG  
TAGGTTTTTGGGGACCGAACCCTCTTAACCTGGTGCCCAAGCAACCTTGGNGGAATCT  
ANGGNAATTG

Sequence 665  
TCCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCCTGGAGCTCCTGTAATAAGAAATG  
TGGTTGGAAGATGCAAACTGTGGATGATCATCACCTCCATTTTCTAGGTGTCATTACAG  
TGATCATCATAGGCTTATGTCTTGCTGCAGTAACCTTATGTTGATGAAGATGAAAATGAAA  
TACTTGAATTATCATCAAAACAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTG  
TTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGTACCT

Sequence 666  
GGGTGGCGGCCGCCCGGGCAGGTTTAATCTCAGGTCTCCCTCATACACTTCTCAGCCTCA  
GCACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTT  
T  
GAATGTCCAATGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAAC  
TCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACACATGTAGAGTAAAT  
G  
CATAAAGGGGACTAATTTTAAATGTACCT

Sequence 667  
GGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGC  
GGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCAACTTATCTG  
AGGCCTGGGGCTGAAGCCAGCGCTGACGGAT

Table 1

## Sequence 668

GGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGAAAATTT.  
 TT  
 GTTGAATTTTAAAGAAAAGAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTGTAAAGT  
 GAAGTCAACCTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTA  
 G  
 TGTTAACAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCA  
 GCAGATTTCCAGAACTTTATGTATTTGGGAAAAGTAAATATACAACAGACATATCCCT  
 GCCCTGATTAAGAGGGTAGATAAAAAACAAACATAAAACAATTTTACTTGAGATAGTAAT  
 AAGTTATTTGAAA

## Sequence 669

GGATCAATAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTCAGCC  
 ATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGA  
 AGCAACTGACGACAGATGCTGCCCCGATTGGTGAGATGCAGCCCAGGTTGGACTGAGTC  
 ACTGCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACCATTCCCTGTCT  
 AGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAAT  
 TCTCCATATCGTTTNCATAGTTACCCCTAATCTCTGCACAAATTTGTGTGTACAGAAGC  
 A  
 GATCCAGAGCTTGAATA

## Sequence 670

TNCGGGTGGCGGCCCGCCGGGCAGGTACATTCTTTTTTTTTTTTTTAACTTTTAGGGT  
 CT  
 TGCCTATTTGCATCCTAAGGGCAAAGGCTTAGAGATATCAANGGGGCTAATNTTTATN  
 GNCAGACCATGGCGGATGTAAATTAGCTGCTTTGGTGTGGGCTGCAAAAATAACAGCTA  
 CCATTGCAAAACGAAATCTTTCAATGGCACCCCTTACTGGATGGCCCCAGAAAGTTGCAA  
 GCAGTAGAGAAGATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACA  
 GCAATTGAACCTGGAGAACTTCAGCCACCTATGTTTTGATCTCCACCCAATGAGGGCTCT  
 CTTCTTAATGGCAAAAAAGTAATTTTCAGCCTCAAACTAAAGGGCAAAACAAAATGGGC  
 ATCAACATTCAATAATTTTGTCAAAATAGCACTTATCNAAAAAAAAAAAAAAAAA

## Sequence 671

GCTCCCGCGGTGGCGGCCGAGGTACGCGGGTCTTCTCATGCTCCGTGATGCATGAGGCT  
 CTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGTAAATGAGTGCGA

## Sequence 672

AGCTCCCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTT  
 TCTTTTTCGAACCTATACTGTCTTCTGTAAATCTTCTTACTACCCTATGACCCGTGAG  
 C  
 CAACCACTTTCCGATGCCAGGGTCTGACACCTCACCTGGCATAATATAAAGTGTTTT  
 TT  
 TTTTATACCCTTCCAATTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTA  
 AAAAGAGAAGAGTTTATTACCTGAAAAGCAAGAGAAAACAAAGAGGGTAAATTTGAAC  
 CAAGGGAAATCATTGAAGAAGTGCTGGTATTTTCAAATTCTGTCAGTTGTACATT  
 T  
 GTGATAAGTAAATGTTTAGGAATAAAGGATGGAACATGCTTATTTATTTAACTCCCC  
 C  
 CNAAAAAAA

## Sequence 673

GGATTGAGTCCCGCGGTGGCGGCCGCTTCTTAAATCATGGCCTCAGTTCCGAAACC  
 AACAAAATACGAACCGCGTCTTATTCATTATTCCTAGCTGCGGTATCCAGGCGGCTCG  
 GGCTTCTTTGAACACTCTAATTTTCAAAGTAAACGCTTCGGGCGCCGCGGGGACACTC  
 AGCTCCGCGTACC  
 T

---Table 1

## Sequence 674

AGCTCCCGCGGTGGCGGCCGAGGTAAGTGAAGCCACAGTGTCCGGATGGAAGTCTGCAT  
CTGAGGTTGCTCAGTGTCCCGGTCAATTCATTTACACATTTAACTTGCATTAAAGAGCT  
G  
TTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAATAAACTGGTTTTTTTCAAAA  
AAAAAAAACAAAAACAAAAAACAACAAAGCTGCATGTCTAAAATTACATGGAGTTAG  
TGCTATTCTTTTTCCCTTTTGCAGCAACTTACACAGCATTTTAAACACCTTTTTTTTC  
TAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCTAACCAGCTTA  
CTGTGGGACATAGGAAAACCTAGTAGAAATACCTTTGGTGATCTTGTGAGTTTAACTCT  
GATCTTGGATCTTAACTCA

## Sequence 675

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCTTCGGT  
TTTTCTTCTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

## Sequence 676

NCCGCGGTGGCGGCCGCGAGAGCACATGATGACCACGCCATCGTCCAGTATGAGTGGGCA  
CTGCTGCAGGGGACCCGTCAGTGGACATGAAGGTAACGCATGTTGTCACTGCTGGCAGC  
TAGGTCGTCTGGGGCACACCGAGCTGTGAGGGAGGGAGGCCAGCATGCGGTGCTCCTGCC  
CG

## Sequence 677

TCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGGATTCTGTAAGTATGTAGCAGTG  
TTTCTTAGGTAAGTCTCTTTTTGCTACTGAAAGGGAAATGGTCTCTAAACACTGGTC  
A  
CTGTAGCAGGTAAACACTACTCTAACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTT  
GCCTTANAGCTGTTNTTNNCTGNANAAANCNAAANGGGTTTGNNTCCNGNTANNNTN  
NAATTTNTNTTTGNCCTAAAGTTTTCTNTTCCNCNNGCCCNANNTTCCCCGGGGNAGN  
TTCCCCCTTTTCCCGGGTTTTNAAAAANNGGNGGGNNGNTTTAACNNGNCCCCCGGGN  
CCCCCCCANNTTTTTGNATTTCCCGGGNCGGGCCGTTTTTNAANNAANANGGGGGTCC  
CCCCCCCCNCGGGNNNAAATTNTNTNAAANACATTTTTTCCCCCCCCCNCCCCC  
TCCNNGGGGGGGGGGNNGGCCCCCCCCCCTN

## Sequence 678

GCTCCCGCGGTGGCGGCCGAGGTAAGTGTGGCATGACGTGATGATCGAGTTCANGGCT  
NTCTCCANCTNGGNCNACATGATGCCCACGGNCTNGCCCCACCAGGTCTTNTGAAAGACA  
GNTGACANGAGACATCCNCGGTACCTGNCCG

## Sequence 679

NCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTGGTGTGTGATCGGAACGTGTCGATCCCCT  
CTTCTCATCACTGCTGCTCCAAGTGGATTTACTCCGGGAATGGTCTGAGGGGGAAAA  
CCAATGTGTTTAGCGTGCTGCCACCTGCGCCTGAGCACAATCCTGCAATCTGACC  
TGCCCCCTCCTGCACAGGAAACCACTTCCCCTCCCAATTGATGGTTCAAACACTGCCACC  
GCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTAG  
GATTTAACGACAACCGGTTGAAAAAACCGGTAGGGGTGTCNTGCTCACAGAGAATAAAG  
ATTTGTAGAAAAGNGCTGAAGTCCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCG  
TGATCCTTACTACATCACTGAACGACACCAAGCACCCCATGCATTTTTGGGTCCAAC  
CT

## Sequence 680

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACAAGGGGAGGTAATGATGGGAGCTCCACT  
CCTTGACCACAGCTGGTTCTGGACCGTATCCCCATGAATCTGTTTGAACGTAAGGAGG  
AAGTCAAAAAAGTTCTTATTTAGGGTTTCTTTGAGATGTGGGGCCACTTCCATTCCCA  
CC  
CGGCACAGGTAGGCACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATG  
CATGTCAACCGGGCAGGCACTCTGAAATTCCTGTTTTGGAGAGGAATTTGTTACATTC

Table 1

AGGATGGATGCCTCCACGTAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTGAAA  
AACCAATTTAGGCATGTTTCCTTGGCCGTGTCATTTGCATTCTCTGGAGAAAAGTGAT  
CT

GGTAAGACGCTGCGGCTATCCACACACATGGAAAAGATGC

Sequence 681

GCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGAAATTTTAACACT  
TCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCTGCTTCACCTTCTGCT  
GCTTTTGGGACTTTTTATGAAGCCTAGGTAGNCTNAGGACANGACCCTGAACCCATTTTT  
TCACTGGGAGAGGAAAACCAACAGGCTTCTCAGCTATTGGCTTGGCAACTCTTGGAGTTC  
CTATGGCTTCCATCAGGGGCTCCAGGCCCTGATAAGTGGCCTCAGGCCAGGNAGGGAGGA  
TTCGGNGTAGCCGGGATTGGGGAGCAGCTAGGTNCAGGGAAGGNTGGGAAAATAGGGGAC  
CCANTCCCCAAAACCAACCGTTTGGCCGCNATGGATGGAATTTGGAGGGGAAGTGGGACC  
GNTAAGTTTCTGGCATTGCCTGGCCGNTTGGGATGCCTTCTTGGGACTGGCTCCCAGG  
GCCGAATNTTTTTCAGGGTCTTGCAAGCCCGGCT

Sequence 682

TTGACTCNCCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCTTATGGCCAACC  
GCTCGGCTTGCGCCCGCCGGGTTTCCGGAGATATGTTGTATTTCGGCTGGGTTCGAGGGTCT  
CAGGCAGAGTGCGCAGGCTCGACGGCTTATACTTTGGGAACGACATCTTGGCGAACCAGG  
GCACAATTGCGCCTGCGCGATTCTGAGGCCCTTTGTCTCCCCGCGTACCTGCCCG

Sequence 683

GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAGTAGGGTCTAC  
AAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACNGCCCTCAT  
AATCATTTTCTTATCTGCTTCCCTAGTCTGTATGCCCTTTTCTTAACACTCACAACA

A

ACTAACTAATACTAACATCTCAGACGCTCAGGAAATAGAAACCCGTNTGGACTATCCTGG  
CCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTTACNNATTTTTTAAANAANANAAA  
NGGGGGAANGGACCCNTCNTTTANAAAAAATNNGGGCCCNAAANGGTTTTNGCCCCC  
NGNGGGCCCTNNGGCNTTTTTAAAAAANNGGGGGANCCCCCGGGGNGGGGGGANTNTTT  
TTAAAGNTTTTTCCCCCCCCCCCCCGGGGGGGGGGGGNCCCCCCCCNTTTTT

Sequence 684

CCGCGGTGGCGGCCGAGGTACCCCATGCAATATANTGGCTCTACAATCCTCAGCATGTTA  
ATCGAAGCCTTGTTGAGCTTCACAAAGTTCCATTGAAGATTTGACNGAAGGCGAAGAAG  
CTGCAACACCTTTCGAACCTTTGGGCTCACTCCATTGATACCTCTGATTCTGATGACAAA  
CGCCAATTTGGGTTCTGCAGGTACGAGGACATTTTGCCCCGCGGCTTGTGGGGTCTCCT  
TTACCCATGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCTGGTG  
CGAGCTTTTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAAGTAG

Sequence 685

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGGTTTCC

G

NTCTTGTTGCCAGGCTGGAGTGCAATAGAGCGATCCCAGNTCACTACAACCTNCGCCTN  
CCAGGTTCAAGCAATTNTNCTGCCTCAGCTTCTGAGTAGCTGGGATTACAGGCATAAGC  
AACCATGCCAGCTAATTTGTATTTAGNANGAGATGGGGGTTTTTCNATTNTNGGNAA  
GGNGGGTTTTGAACCNCCCCCNNGGGGGNCNCCCCCTGGGCTCAAAAAAANGGGGN  
GGTTAANTANGNGGGGGGGNGGNCNNATATTCCNCGCCTTGATAAAAAAANANCNC  
CCCCNCCCGNGGTGTGGATATANATATTNTACATTNTATNTTTNTCCNCCCCC

NC

GGG

Sequence 686

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTT

T



Table 1

## Sequence 693

TCCCGCGGTGGCGGCCGCCCGGGCNGGTACCTCAGGGACATTTAAGAGTTGGACGGTGCA  
AATATATTCAAAAGGGTGCAACATGACACAGTGTATCCCCCTGCTTCTGTTTTGTAT

A

TTTTGCTACT

## Sequence 694

GGTCTCTGTTGGGGCTCCCCCTTCTGAACTTTGGCCAAAGACAACAGGATATTCTTGGG  
GGTTTTGTTGTTGTTTTGTTGGCATNNTTCTGTGCCTGTTGGTGATTCCAGCACAGN

CC

AGNGANCCGNGTACCTGCCC

G

## Sequence 695

GTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTATAATGGAGGCTGACCAGAGC  
AGTTTAGGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCTAGTTTGAAGGTC  
GGCCTTGATAGATTAAACGAAGGTTACCTAATAGAATCTAAGTGGCATTTAAACAGTA  
AAGTTGTAGAGAATAGTTTGAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

## Sequence 696

NCCGCGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCATGCAAGAGAGGACTGAGTGG  
ATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGGAATTTGGGCCATA  
TTAACCACTTAGGTCATGATAAATGATTACATTTTTGGACATTTTGGTGTCTTAATGTC

A

GCAAGGGTTGCACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATTTAGTT  
ACTTACAAGTTTTTGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAATAACAGGGGAG  
TCTAATTACTTCTAAATTCCTCACATAAGGAGTTTTGCCTCTGGATGGCCTGCTTGAT

G

GNCCTAGGGNGATCTTTGCCCTTTTATACTAANAAGCCCTTGCCCTGGAAAGGGNTNTT  
TGGGCNNTNAAAAAATTGNGGGCCGGGGGAAANGGGGGAAACANTTTTGGGCCCCCN  
NNNGAATTANAACCCCTTTTTTTTNGNGGGGAAAAATTTNCCCCCCCCCCCCGGGGGGG  
CCCCNTTTTTTNGGGGGGNANAAANCCCCCCCCCTCGGGGGGGGAAAAAAAAA

## Sequence 697

CGCGGTGGCGGCCGCCCGGNCAGGACGCGGNGANGACAGCGNCAGGCGCTTGATTCCCT  
GAGTCCCGGTGCCTCANCTGCCAGNGCCACGTTCTGTAAGAAGGCAACAAGNTCTTCTC  
CTCTACAGAAGGATTTTGCAACANTTCGGCAAGNTCCAAATGATTCTGATCGCAAATAC  
CTGGAAGATTGGGCAAGAGAAGAATTCAGAAGAAACAAANGTGCCACCGAAGAGGATACA  
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAACACTTGCT  
TTAGCAAAATCTTAATATAGCATTATTCTGAAGGGA

## Sequence 698

ANCCTACCGCGGTGGCGGCCGAGGTACGCAGNCCNCTGTAGGGATCNGTNTTGTTCNT  
GACNAGCCCTACGGTAATGCAGCCCGGAGCTTGTTTTCCGTAGCTGGGGACAATCTTCTG  
TCCTTGCTGTTTCATGTCGTGGAAGAGAGGGGCAGAGTCTTGCTCTGTCAACCCAGGATGGA  
GTGCAGCGGCGTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
TGCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCAACCTACATCCAGAGACTGGG  
ACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGAGTGAATCTGGCAACACACTGA  
GTGATGCTTGNAATGGCCACTATCAGGAATTTAAACAAGATTT

## Sequence 699

CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTTAG  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAAATTTATTTTGGGGGGGCA  
GAGTCCATGTTGCCAAACTGGTCTGGAACCAACACACCCAGCTAATTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGCTGACTGCGCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG

Table 1

GTCACTGG

Sequence 700

CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCCCTGACCTCCG  
CACCGGAAGCCCCCGGTACCT

Sequence 701

ACCGCGGTGGCGGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGT  
TCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAATTATAAT  
NCTTCTTGGATTCTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTC  
TGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAA  
CTTCAGGGCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAG  
CAGGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGA  
CTGCTCCCAAATCAAGATACCTTAACAGGAGAGGGCCAGTTTGCCCAAGGAGCCAGGC  
AGGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTTNAACACAACCAGGCCCCAGT  
CACGGGGATGCCCTATGTATTCTCTTCAAATGCCTTAAGAGCAAGGGCCAGATGGTTT  
CAATACCTATNCAGGTTTACATGGGC  
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCAAGCAACAGTTACTGCGACGTGAGATCAT  
CAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGA  
ATATATGTTAGATTTGCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAATGA  
CAGCTCANAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAGCAGAACCGGACAGAGC  
CCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACC  
T

Sequence 702

GCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTT  
CTCANAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCATCTGCC  
CACAGACGGGGTGGTTCTAGACGGCGCTCTAGAAGTNGTGGGATC

Sequence 703

GGTGGCGGCCGCCCGGGCAGGTACAAGACCTTGACACGCCCAAAACACTTCCTGCAGATG  
TTGNCGTTGGAAAACGTCTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGCTTG  
GTTGTCAGCAAGAAGCTGACACACCTGTGCTTGCCAAAGAACCCATTTGGGGATACANG  
GGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
TACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGGCGCTCCAAGAAG  
CCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGGGA  
TTCTCTGTGAGGCATTAAGAAGAATCCAACTGTAACCTAAACACCTACGGTNTGAAGA  
CCTATGAAACTAATTTGGGAAATCAAGAAGCTGTTGGAGGGAAAGTGA

Sequence 704

CGCGGTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTG  
CTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCNGTGACCTTGCTCTGGAGACN  
ANGATATCCCTTCAGCCTGAGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTC  
ATAATCACCTGCAGTTCATGCTCACCAGCTCCTNATTGTNNAGAGACAGNCNGGACT  
CCCGGCCGAGGATGTACCT

Sequence 705

CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGACGCCATTACC  
ACTCTTGGCTCCCAGAAACCTCTGCGCCCCGCGTACCTGCCCG

Sequence 706

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATG  
TTTCTTAGATAACCATAAACTGCAAAAGCAATTTTTAAAAATGTAAATAGGACTTCATC  
NAAAAGTAAACGCTTCAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGA  
TGAGACTTTATGTCTAGAGTAATGAATCTTGTTAACGAATAACCAACCCCTTTTAAAA  
ATGGGCAAAAGATTTGAATAAACATTTCACTACAGACAATAAACAAATGGCCTTAAGCAC  
AAGAGATGCTCAACATCAGTAATTATTAGGGAATGCCAATCAAACCTACAACGAGATAC  
CCTATATCCACTAGTATGGCTATAATAAAAAAGAGTAACAAACCGTTGAGGAGGATATGG  
AGAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACACTTTGGGA

Sequence 707

CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTT  
GCCCTGCTACTTACACAGTCCAGAACTCACTTGGGTGAGCATTCCAGTAGGACGGTGGCA  
TTTTAGGATTGAGAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATTAATGTCT

Table 1

GGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAATATATTTGAATTAATGTA  
TATTTTGAGAATAAAAGGCTATTTCTAGAAAATATTACACACTTGTCTTATGTTAAATAA  
AAATTTGCTATTTATTGAATATCCCTTACCCACCCCTTCTCCCAATGAAGATCTTATGCA  
TACCTTCACTGGAAGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCAT  
TTCTCTGTTTATATTTTGNAAACCGCCANAGCAAGGGCCATGCCACCTTTCTCATTGGACC  
T

## Sequence 708

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCCTTT  
TCATCATTCGGAAGCAACAGCGGCAGTCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAG  
TGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACTTTAAATTAGCTACCTTGCTT  
CCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATTA  
GAATGTCTTGAACCTTTGGTTACTGNGAGCCAAAGTCGGTGCTCAAAGTATATTTTCATAGT  
CTCAATTATATAGTAATTTANGTTCTGAAAAATAGGTTCTGGCTTTGCATATGTAATATT  
TTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAATGGATAAATTTAGAAGTTTATT  
TCCTT

## Sequence 709

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAG  
AAAGTTGTTAGACTAATTTTCAACAAAATTTCTTTATTGTCTTGGTAACAAAAGAAGCA  
TACTAAAAATTTCAATAAGGCACAGTGTCTNTAGAAGCTTGAGCATTCAACATAAACTT  
CTAATTAACACGAACCTGTGCTCTTATTTTCAGCCATTGCTGTGTGGGCTTGGAGCCAGGA  
GAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTTCTAGTT  
TTGGGGAGACAATTACAAACATNGTTT

## Sequence 710

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCTAATCCCAGTTATGAGGGCTCTGCC  
CATGACCTCATCACTTCCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAAT  
TTCAGCATGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTCATC  
ATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTAGAACTAAGACTTT  
AGCGTTGAACATGGAAGGAAGTGATGACTGCAGATATCTCCAGTACCTCGGCCGCGACC  
ACGCTAAGGGCGAATTCAGCA

## Sequence 711

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAT  
AGCCATATACCAATAAATGTTCTGTGACTAGGGGTATGGCACAATGGGTATTGAGACA  
CTAAAACTCTGCTTCAGGCTTCCATCCTCTTAATTTTANAATATCTCTGATTTCTTAAT  
TTTCTGATTGACATCTTTTGGTAGATTATCGGGTTTTTACTTTATGTTATTGACTGATCC  
TTTAGAATGATTTCTTTTGTCTGGGAAAAAATGCATTCTAAATCANATTCATAA  
TACTTTGATTCACCTTCCAAGGAT

## Sequence 712

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAATTTTAAACATTAGGAGGTAATTAT  
AAGTAGATTCTGTGATTAGGACTTCATTCATGTATCTTTTGCTACATAAACCTTTGTTAG  
ATTAAATGGAAGACACCTGCTAGGTGATACTTTTTATAAACATATGAGTAAGTCATATA  
TCTTTGTTAAATTTCTGTATGTTCTTTTTGTATAAAGATGGAGAGAAAGGATGGAGTGA  
TACTAAGGACCCTAATAACATCTCTGTTCAAATTAATTACTAAGTGATAGAAGTATTCAT  
ATGCCATTAAAGATTTGCCAATTCATTT

## Sequence 713

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGACACAAGGACTCCAGGCCACACATATCT  
TCTTGAAAGCCCTTTTCTGTTTGAAAAAAGATCGTTTGATTTGATAGAGCAAAAGAA  
GGCCACAAAATGAATTGTCTTCTGTGGCTGTGTTTCAGAACGGCCGGTTTGTGGGCGA  
TGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAAACTCAACGGACCCAGGTAATTTCT  
TTGGCTCAAGACCTGGGTTGCTTCATTCATATTTTCTATTTCCTCCAGCCTATAAGAGCA  
TATTTGTGCTTGTAAAGGTGCCTGG

## Sequence 714

CCGGGCAGGTACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTTAAAT  
CAGGTTATAAATCCTCAAAATCACCAGAAGTATAAATTTAAATGAAAAACCCAGACCACA  
GAACAAAAACAGAAATACCAAAAAATAATCACAAAATATTAAAAACAGTATATAAACACA  
GTGACAGAATTAGGACTAAACATATCTGTAAAAACAATAAATGTAAGGGTAATCTCACCAA

Table 1

TTATGAAAAAGACCTTCAGATCATATTTTAAAACAAATTTAAAACTCAACTGTATGTTT  
ATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAGAAAGTGC  
AAAGAAATAGCAAACAAATACAGGCATAAAAAAAACAAAGATCCCAATAGTACCTCGGC  
CGCGACCACGCTAAGGG  
Sequence 715  
CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAAT  
TGGTGTAAAAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAAT  
GTGGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTTTATACTAT  
TCATAGCAAGATATAAGTATTTAATCTGCAAGACGTGGATTTGAAAATTCAGCTGCCAA  
ATGTAAAGAACAGATTCTAGATTATTATTAATAATATCTCTATAAATATTATATTTATC  
AATAATGGGTACCTGCCCCGAGCGGCCGCTCGAAAGGGCN  
Sequence 716  
CCCTTCGAGCGGCCGCCCCGGGCAGGACAGTGGTGTGATCTTGGCTCATTGCAACCTCCA  
CCTCCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CTGCCACCATGCCCCGTGAATTTTTGTATTTAGTAGAGACAGGGTTTACCCTGTTGG  
CCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCGGCCTCCTAAAGTGT  
TGGGATTATGGGCGTGAGCCACCATGCCACCTCCTGGGTCTTCTTCTGGATATTACCA  
GGCATTTTTATGCTGATCTAAGTGAACCTGGATATTTTTTTCTCCAAAGTTATTTCT  
TAGTTCTACCTATGACATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAA  
TAAACATTGCTTAANGGGAGAGTTTGGGGGAAGTGCATANGGGATCTGCAGTTGGGACT  
GGATTTTTCGGGT  
Sequence 717  
CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTT  
TGGAGACTTACAGATAGCCAGCTAGAGAACTACCAATGATGATATCCATCAGGAGGATTT  
TGGTGGCCAGCCTCCAAGATGGTCTCAATGATCTTTGCATCTTCATATTTCCACCCTGT  
GTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACCACATGGCTGCAGTAA  
TGGTATGTCACCTTCTGAACCTTAGGTTATAAAGACTATGACTCTCATCTTGGGTGTCCAC  
TCTCTGTCTCTGATCTTACACTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAG  
GCCCCACAGGGTGAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGCCTGNCA  
ACAACCATGTGAGTGACCCCGGNAAGATTTTCCAGTCCCAGTCAAACACTGANATAACC  
GGCAACCCCTTAAGCTGACAGCTTAACTGCNANCTGATAAAAGACACCCCTTGGGNCAAAAC  
CATNNGGAACCATTCATACCCCA  
Sequence 718  
GATATCTGCAGAATTCGCCCTTAGCGTGGTGCNNTTTCGAGGTNTTNGGGGCGGGATAAA  
CATGGCGACGTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGGCCGT  
GGAAGCATCAAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTTGAACACGAC  
AGCGGGAGGTTGCAAGTGTGACGAGATTGCACCATTTGCACCTCCAGTCTGGGCGACAAGAGG  
GAAACTCCATCTGAAAAAAGGAGAAATCTTTTATTTTCTACTTCTCTTCAGATTTGTC  
TTATGCATTTTCCAACATATGTATGCATCACAAGCTATTCTTTTCTGAGTTATAGCTACA  
GTTTTCTACTGTTGTCTNCATGCCATTTTCATTTACATGGTACCTTG  
Sequence 719  
CCCTTCGAGCGGCCGCCCCGGGCAGGTACTTNNNTTTNTNNTTTNTTNTNNGGAGAC  
AGGGTCTCGCTCTATCACCTAGACTGGAGTGCACCTGGTGCAATCTCGGNCTACTGCAACCT  
TCACACCCAGGCTCAAGTGTCAATCCTCCGCTGAGTAGCTGGACCACACGTGCGCAC  
CACTAAACCCAGCTGTTAATACACCATTTTTAAACCAAAACATTAAGAAAAATATAGGA  
ACAGTAAGTAGATTACATTTTGTAACAGACAAAGCTTACAAAGTTTCTCAAATATGAA  
AGTCATACTAACTGGGAGACTGTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCC  
NCAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATNTTCAAAATAACATTT  
TTTGCCCTTAATGGATTACAAATGCTAACCNACATAAAGACCCTGGGAAAGGGTTCANAA  
TCTNCTCATTACATACTTTCAAAATATCTTNCCCTTACTTTTCATGAAATGGACCCCGGAA  
TCTATGTAAGTGATGACNTGNCCGGNGTTCCAGGNGTTTNTTAACTNAACTTGAANAAA  
GGCCCTAACTTAAATGGGTTTTTGAAANCCTTTTCAAATNNGGGTNTTGGTTTGGAC  
CCCNNTNAAANCTTTTTANCAATNTNTTTTAAACCCCTTGGGGGGGGGGGGCCCCC  
AAAANAAAAANGGCCCTTGGGTAACCCCTTTTTGGG  
Sequence 720  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAGAACATGGTAAAAATATGTTCCACAATAA

Table 1

TATTTTATCTTAGAAATGATTTCAGTAAAAAATCTCTTTATTCAACTATCCTCTTGATTG  
AGGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGATAATGAGAC  
TTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTGGTCATGTATTGAGTTTACCA  
GCCTTGAAGATATTTGTAGGAAATTTAAAAGTTTCTCTATTTTATCCCCCATGATAAAA  
ATTATATAGAATAAAAGCTGAATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTA  
TAGCATTAATCAGATCACAGAATGCATATTTAAACCAAAATTTGACTAAATATTTTTTA  
ATTATTTAATTTTTTCTGANACCGGAGTCTGGCTCTTGTCTNCCCAAGCTGGANTGCAAT  
GGCNGGAACCTNACTTATTGGAACCTCCGCCTCTGGGTCAAGCCAATTCTTCCCNCTTG  
GNCCTCTAAAGTGCCTGGGATGGCAGGCCTGTGCCANCCCTTCTGGCCCCANAGNNCCGG  
GTTTTGGATGGTTGGGTNGGTTNGGGGGGTTTTTTTTTCCCTAAAAACCTTNAATTTCC  
CCTTTTGGTTTTTTTCCAAAAAATAACCCCTTTTTTTTTTACCCCCCCTT  
TTTT

## Sequence 721

GCAGTGTGATGGATTCTCANAATTCCTTACCGCCGCCGGGCTGGTACGCGGGGTTAA  
CTATGTTTTCTTTAACAGAAAGTTCTGTTTTTGTATCCTTTTAAAAATAAGCTTCACG  
GAAGGTATGAGAATAGTATTTTTCAACTTTAAATTTCTCATTACCAGAAGACCATGTGGT  
AATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCCTAAAAAATTAGCTGACC  
TTGTTAAAAATGTTGGCGTGAGCAGTATATTATACCTATCTTTTTTATTGTGTGTGTG  
TGTGTGTGTGTTTTAAAGTAAATTTGGCTGAAATATCTGCCTGTTTCCCTCTTTACATTTTT  
CTTGGTTCTTTCTTATTTATCTTTGTCCATCTTGGAGATCTACTGTAAAAGTGAATTTT  
TTTAATGGAAAACCAAGTTCCCAAGTTTTACTCTCAGTGGGTTTNGGGACATCAGATGTAA  
TTGAGAGGCCAACCAAGGTAAGTCTTCATGTCTAGTNGTTTGGTTGAAGGAAACGAGCCTA  
TGAGGGTCAGTTTTTCCCCAAAANGGAA

## Sequence 722

NGCCCTTAGCGTNNTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTCATGCTTCC  
CAGTTTGGCAGATGTGAGCAAACCTATGTATAGGAATTCCAAAGGTAACTTTTCTTTCA  
TTACTTTACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATTGGG  
TGGGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAA  
TCTCTTTTAGCTCAATTTCCCATCTGTAAAATAGGAATAATAAAAACTGACTTCAGA  
GAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATTTGTTCTGTAATGGG  
CAAGATAGCAAATATTTAGATTTTGTGGACCATGCAGTCTTATCATAACTGCTTAACT  
GCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAAAAGTGTCTCTGTTT  
CAATAAACTTTATTTTCAAAAACCAAGCTGGCTTGNACATCTGGCCTATGGGCCCATAA  
GTTGGCCCATCTCTAATGTAAAGAAAGGACTTTANCCCAAAGCCACAACCTGCATAGTAA  
TGCCTTAAAAAATGGTAACATCTTTACTGGTATTAATAATTACTACTGCATCTATTACC  
AGNAGCCAATTGGAGTAATGAATCCATGAATGGTATAATGGTAAATACTAACCCTTT

## Sequence 723

GATATCTGCAGAATTGCCCCCTAGCGTGGTTCGCGGCCCGAGGTACTTACTTTGTTGCTCT  
TTTTCTAAGTTTTAAAGATGGATGCCAATCTCAGGCTTCTTTTCTGTGTGTATGTGCGT  
ATGTCCATAAATCTCTTCTAATTACAGTGTAAGCCACATCCCACAAGTTTGTAGTCA  
CAGAACTGTATCGTCACACTATTTTTAATTTAGTAAGTTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGNTTTTATTAT  
TAATTTCTAGCTGTANTTGAGCTCTTGTCTAGAAAATATGGTTTATTTTAAGTC

## Sequence 724

CCCTTTNAGCGGCCGTTNNGGCAGGTACTCCTCAGCTTGTGCTGCCCTTCTCGAATGAC  
TCGCGTTTCTGCTTTCATCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTT  
ATAAGGATCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAAACAAGTTGAAGAA  
CGTCTGAAAGAAAATACAGTGTGTCTAACTGGAAAAGTCTGTAAATAGTTTGTTCATGA  
GCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGTAC

## Sequence 725

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAATCTTCTAAATATTAACACTGGTCAACT  
AAAATGCACAAATTCATGAATTGGATTTGCACTCAAACAAAAAATACCATAGGCAGT  
ATCATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTTTTCAT  
ATGTATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAGCTTCATTCTAAACTACT  
CAACAGCTCAGAACTGACAAAGATCACAAGAAATCAACTATTAACCTCTTGCCTGAAGAC  
ACAAATGAAATATTCCTATTTTACAAAGCAAAATAGATTCCAAGATTTTCCAAAGCCAT



Table 1

CAAAGTGCTGGGATTACAGGCGTGAGCCACCACACCCAGCCTATTCTTTACTTTCTTAA  
ACTTTCTTTCACTTTACTCTATGGACTCACCTGAATTCCTTCTGCTCAAGATCCAAGA  
ACCCTCTTTTGAGGTCTTGATCGGGACCCCTTTNCTGTNACACNAACTGTATCCCCCTT  
GGCAGACATATGAATTTGCACCCCGCTTGGGTCTTCAATNTCCAGGGGATGAAACAAGG  
GAGGNAAACCGAGGGGAAAA

Sequence 733

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAACCTATGTGAGAACGTATACTACTTCTCGGC  
CACAACTACTATTTTTAGATATTCATAAAATAACCTCTGATTGTGTTTCACATTGCCCA  
TTCAGTTCTGTCCCAATCTTATAATTCTGATTAAATGTTCTGGCCTCAAACCTAATTTTA  
AAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAAGACTCTGTAACCTGTAT  
AAAATTAACCTTGAAAAATCACTCACTCCAATAAAACCTATGATTTATGTAGCTCATAAGA  
GGGTGAATTTGAATATTTACTCTATGAAAAAGCCTAAGCAATTCAATAAAAACCTTGAT  
AACTGCACGTTTAAGTTTGCAGCATCTTGACCT

Sequence 734

NGCCCTTTCGNTTTNNCGCCCGGTCAGGTACTTTCTCTGAATTTCACTAGCTACATTA  
AAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTTTGCTACATTA  
TCCATTTGAATACACAGTGAACATAAACACAGAGTGGCTAAAAAGTCCCTTCATGCATA  
TTTACTTAGCAGAGAGCTCTTGAGAAAGACCCCAACCAATAAACCCCAACCAAGCAAATC  
CAGCTACTTCTCTAGCTGAGAGGGTGGAAATGACTCCAAAATATGTTTCAAGCTCAAAAA  
GCCTAAAAACAACTCCACATAAAAAAACAAAAATCTATCTAATTGGACATTTACCTTTTG  
GAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAA

Sequence 735

CCCTTTCGAGCGGCCGCCCGGCCAGGTACTTTTTTTTTTTTTTTTTTTTNGNCACAGAC  
ACAGGCTGGGAATTTCCCAAATCTTACAAGTCTCGTCCCCTTTCCCTTAACAACCTCTT  
CGGAGTATCTCCGTCTTTCACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCACCT  
TTAACATTTCAATCACAGGATCTCAGCTCAGCCAAGTCCTCAGCCATTTTGTAATGAGGA  
TCACTTTCTTCCGGTTCCCGGTGACCTGTCCCTCGCCTCCTCTAAGCCTCAGCAGAAAGG  
CCTTCAACATCCACTTTTCCACAACATTCTGTCTATGATACCTGCATTCTCTGAGATGCT  
AGAAGCTTTCTCTCAAGCTCTTCCCTTTCTNTCTGAGCCTTACCCGAGTC

Sequence 736

CCCTTTCGAGCGGCCGCCCGGCCAGGTACTTGTCTGCTTCAATAAAATTTGTCTTTGATT  
TCACTGGTGGAAGGGTGCTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTT  
CAGTTTCCGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTANAAAACCTGGA  
CAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGAACCTTCTACAAAAA  
GTTGGAAGAAGTGCAAATTTAATAAAATTAGATGCTAAATTTGTTTCATCTAAATTTT  
TAATTTACACAAATAACATAAACTATATGAATAGGTACCTCGGCCCGGACCACGCTAA  
GGG

Sequence 737

NATTTTTTTTTTTTTTTTTTTNGTTTTGAAAACCCCTTATTTCGGTTTCTCAGTAACAGT  
GATGCATTATAGAAATCTTGTCTGCTAAACTTCATAGCAAACCGATCCCAGTCCCTACC  
TNATTGTGTGGTAGCCAGCAGCAGAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTG  
TTCATCCCATCAGATGGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTNACA  
TTGAGGGTTGATTGGCTGACCTAATGTNTTTTCCAAAAAGGAAAATTTCAACAAGTTGCC  
CGCATTATTCATGAATGANAATTAGATNTCATATCAAATTTAAAGAAANGAAAAAGCACC  
AGANGACCAGAACTACATAAAGCATCTCTTACTACAAAAA

Sequence 738

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTGCTCTGAATTTAAATTTAGAACAAAAAT  
CACCTGCCGTGCCACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTC  
CAGTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGAACAAAAGT  
GGCACTATTCAATTGTGTAGTTTTTTGTAACCTATATTTACCCTAAGCATTTTCTCGTT  
GTCTTAAATTATTAATNGAAAATTATTCATGGCTAAATAATGCCTAGGCTGCCATGAGTC  
TTTTCTCCTTCTATAAACCGTGTGAGCATTCTTTATATATATCTTTCAGCACATCTGCA  
ATGATTTCTTTGGAATAAAATTTCTAAAGTTTCGCTGGATCGAAAGAATCAGGGATTTTTA  
AGTGTTCTTTCAATTTGGCAAAGTATTTTTTCAGAAACAAGCCCATTTTAAGTTCTGAAT  
AAACAAATCTTTTTTATGGNGCATTTAAATCTACCTCCTTGAGCCATATGCNNGGGA  
AAAAATGGAATTATTTGGNCAACCATGCTTTCAGATACTTGAAGAATTGGTCCTAATTNC

Table 1

TTCTTTATGACCTATTCTGNGTTCCTGGGACTNTACATTAATCTTTNCCCATGGATATTT  
ACCATTGGAAAGGG  
Sequence 739  
CCCTTAGCGGCCGCCCGGGCAGGTACACAGTTTCCTTCTCGAAACAATCCAGAAGTAGG  
CTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTTCAAGAACAGGACACCATTAC  
CACACCCAAGAAAACCAGCATTAAATGAATTTATTACAGGAGTNTCATCCAACATACTCAA  
ATTTCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATTGATGGNTCACAGGTT  
GTATTTGGCTGTACATCTTTTGTGTTATCCTTCAGAGTAAACTGGCCTGCCCTC  
TTTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGCTGGATGTGGAGCATTTCTCC  
ATTCATCTGATTGTTTCCATGTGACCAGATTCCGGGTCACAAAATTTNTGGCAAGAACCC  
TTCACAGATGACCATGTNTTGGTTATTAGGTAACAATAGATTCTCAAAGTAGAGAAGTGG  
GAAATTGACCTTTGTCCATTACAAAATAGAATTTTTTTTTGAAAATCTAGAATTCCTCAN  
GAATNAATTGATTTCTTTCTNTTTCTTTTTT  
Sequence 740  
CCCTTTGAGCGGCCGCCCGGGCAGGTACATTGTCTGCATTTTGAGATTTTCCTATTAT  
CTTTCTGGTGTTGATTTCTGTTTAATTATACTGTGATCTACAAGCAGCACTGTATTATTT  
CCATTCTTTTAAATTTGTTAAGGTGTGTTTATGCTCAGAATGTGGAGTGGACTATTTTG  
GTGAGTGTTCCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTAAATGAAGTAGTC  
TATGTATGTCAATTAATGTTTGATGATTGATGGTGTGAAATCAGTTATGTCCTCACTGA  
TTTTCTGCCTGCTGGATATGTCCATTTCCAATAAAGGTGTGTTAATCTCTATCTATAATA  
GTGGATTTATCTATTTCTCCCTGCAGTTCTATCAGGTTTTGCCTCATGTAAGTTTTGGAT  
GTTCTGTTAAATGCATACACCATTAAAGGACTGTTAGGTATCTTGGGGAATTGACCCCTT  
TGGTTTCTATGTAATGCTCTTCTTTATCATTGGATAACTTTCCCTTGCTATAAANGCCTG  
GTCTGNCTGGGAAAAAANACACAGGTNGNTACNTCTTCCCTT  
Sequence 741  
CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCAGGTTAGAGATGACTTCAATATATGTCCG  
CAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAATCCGAAGCAGCTCCACAGAG  
GCTAAGATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCAAAAA  
AATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACTGAATAAGATTTTAA  
ATTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAAACAAGGTT  
GCTCAAAGAACTGCCCATCAACCACTTGGTTTCATCTTTGGACACCACACTGGTTATCTT  
NCTTTGGCCTCTGCCATAACGGGTCCAGGCTACGTGCACCAAGGGAAAAAGAATTGGGGT  
NCTTCTTCCCTNCCCTGGTTTGGTTAGGA  
Sequence 742  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCCTTGCCTCAACTTCTCATCCTGGGT  
GATGAGACTGTTACTTTTCTTGTATAAAGAGGGCAACTTTTCATGTAGAAATTTTACC  
TCCTACTTTTAAAGAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCTTTTCT  
TGCACTGCTATTTTTCAAGTGCTTTAACTCAAAAAATCAATATGCCAAAGTGGCATG  
TTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAAGATAGAAAGCAAAAGCAAAATAATA  
GGTTTAAACTAAAAATATCCAGGTGCGGTGGCTCACGCCTATAATCCAG  
Sequence 743  
CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCTCCTTGGCAGCATCAATCAGGCAGGGCT  
CAGCCACACCCGGCTCCTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTTTAGAGAC  
CATCGCAGTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAATGT  
GACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCACACAGATCCAAGAG  
ACCGCTCACCACACCTGAGAAACAAGAACCAAGACAGCCTCATGGAGGTGGAACCGTGC  
TACGCAGTTATGGCTTCACTACTGAATGCGATCTTGCAAAAG  
Sequence 744  
CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGT  
TAGAAATGTAGTTAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATT  
AGATATTTCAATTTATCTTCTCGTATTAGACTGCTTGTAAAGAGACTCAGTGTTTAGACATT  
CATTTCTTCTTCTTGTATAAGACTCCTTGTATAAGACTCGGTGTTTATTTATCTTTTAA  
ATTAACCACAACAAATATATGAGTTTTTAACCATGCAATGTGCAATAAATAAATATAT  
CTGAAGTAGCATTAGCCTTCTAGTTTTAAATAATAA  
Sequence 745  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCA



Table 1

TGACATATTTTTCCCATCTTCTTATTTCAACCATTTGACTGGTTGTCCAGCCCCAAATTG  
TTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTTTAAATNGTTGAGTTC  
CATCCCTTTAAATCATTTAAAAACATGATTTTTAAATTTATCTCCATTACCTTATTTTG  
NGTTTACTTTTTTACTTTTTATTTATTTCCCT

Sequence 754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTAT  
TTATTTCCAGGGCTGTCAAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAA  
TTTATTNTCTCTANAGAANAACGTTTTCTTGCCACTCCCTGGCTGCTGGTCATTGCTGGC  
AGTCCTTGTCCTCCCTGACTAGTANCTACATCATTCTCATTCTGCCTCTGTCTTCATA  
TGGCTGTCAATTCACTGNGTGCTTGCTCTGGGTCTTCAAGTGGCCTTTTTATAAGGACA  
CTGGTCATTGGATGTAGGGCCTACCCCAATC

Sequence 755

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTGGAAGGGTTTTTAAATGTTTTGAACT  
GTGCACAGGCCAAACCCAACCTTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGG  
GGTGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGGGTGT  
CTTTCTCCCAACAATCCTTTCCCATCTGCTGACAGTAGACTTAGCACCTCACAGATGCT  
TGGGCCTGGAAATGAAGCCATGAAAATGAAGCCCTCAGCCTTCTTGGAGATCAGAGCCAT  
GGTCCTCACCCACAGCACATGGG

Sequence 756

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAAATATTAATAGGATATTTATTTCTAAGC  
CAAATTTAGAAAACAATTTACAACTTTTTTAAAGTATAAACATAGTGATGCTTACT  
ATAAAAGGAAAAGTATAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTGCTGAT  
CCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAATACAGTAGCTGAAACA  
ACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGGAGTTCAAGCATAGCTTGGTCCTCTG  
CAAGCTTACAATCCAAGGGTTG

Sequence 757

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAG  
GAAGAGATGGTATCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTCTCTC  
TATTTCTCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTGTCTAGCACAAATATGGG  
CATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAATGTGATCAATCAGCA  
GGCTATAGAAACACAGTTTGATACGATGGTGAAAACCTGTCTACAATGATTTTTTTCAG  
AAATGTTGGTGTGATTAGAACAAGTCAGCAATGATGATGACAAAATATTTACATAATGTT  
ATAGATGTGGCTTGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATGA  
GAACCGTTTGTAGTTCAAGTTTGCTTTAAACAGTGGTTTTCTGAACCCTTTTTATGTTCCG  
NGACCTATGATTAGNAACCATCTTACCATTTTANAATCACTGCTTTAAAAAGTNGTNTCC  
GTACCTGCCCCGGC

Sequence 758

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTTAAACAATGTTGGAAATGAGGAAAAT  
GAGCAATATCAACATTTTATCCTGAGGGACAGGAGTAGAAAACAAGCCAGAGGCTGCTA  
GTTACATAGTTCACTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAGGTACGCGG  
GGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGAAAAATACAAGGGCTG  
TTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGCCTCTGGTCTACAAAGATTCATAAC  
TCCTTGGAAGCTTC

Sequence 759

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTCCGATTGCCTCTCCCATGCTTCTCTGCTTT  
CCAAAGAAAAAACTGACCTTGATAGATCCTGTGAGCTGATTGCAGTGCTCTTAACCTCT  
CCATTGTGAGTTGTTCACTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTTTTC  
TGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTACCCCCAGAACATCCGTA  
TATATGTTTTTTCTGTTTCTAGATTTAAAAATATTCCAGAAGCCTGGCCTCAAGATAGA  
TAATATTTTACTTTT

Sequence 760

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAT  
ATCCTTNATNAGGNAAAAATTTNNTTTNAATTAACNGGAAAGTTTTNATAAAAAAAGGA  
TGTTAAATNGATTTNAATGCTNTTTTGNATTNGTNATANATTTTTTAAATTTTAA  
NCGNGNAATTGGGTNNTTTAATNGGGNGTTTTTTTTTAA

Sequence 761

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAA  
TCCTGGAAACAAATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTCATAG  
GATGACAACTATTCAACCATTATAAAGAAAACCGAATCAAAGCACTGGCTTATTAGAC  
AAGAGTTTCCCAAATCATGCTAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCC  
TTTTTTTTTTTTTCCAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAA  
GCACTGAGTCCAGCCT

Sequence 762

CCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAATTTTAAGGAAAA  
AAATTATCATGGTCTAATCTTACATGTTAACATTTCTTGTTATGTAGGGATCAGACTT  
GTTATAACATAATCCACTTTATAATCAATGAAGAAGAAAGTTTTGTCTGATTCTGAGG  
TATGTAATATTTCAATTATTATTACCATATTGATTTCTCTATATAAAAAATTTACATAT  
TGTAAGTTTTCAGGTAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATTTAA  
AAAAAAAAAACAACTG

Sequence 763

CCCTTAGCGTGGTCGCGGCCGAGGTACGCCCTAAGGGANGNNNGAACTCATNAAAGAGAC  
AAAANGTGCNTTTTTGNTTNNAAAGGCATGCTGTGGTGGTTGGCGCAATAAAATAGTTGG  
GGCCCCCGANTGCCANTGACTTGCTTTNTNGTNGGNAACNAAATGGCCCATCANGTTGGA  
CNCACCTGNCCANTTCAAAAGACCTTGNCCTTTCNTGGGAATGNAAGGGAGNGTTAA  
AAATAAAAAAGTGTGACCACTCCCTTGGATGGGTTTAGCCAAACCTTGGGNTCCANGCC  
CCTGGAAAAATTTGGTTTTAAAAGGGGGGGNAGNTNGGGATCCAAACCTTGGGGGGCCAAA  
ATAAGATACAATCCGTANCTTGTNGGGAAANTTCAAATTTAATTGTTCCCCCAAGNA  
TTNGAATTANNAAAAAAACCCCAAAATTTGGGGGAAGGNAAAAAAANGT

Sequence 764

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCCGGGCAGGTAC  
CGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGTAGGCAAAAAAANGAACCTN  
TTCATTAAGGGATTAATAATGTATAAGGCCAGCACCGTGTAACCTTCGACTTTCAAAGA  
ATTTTCTGGAAANCCCATAAATGGTAGGTNATGGGTTTTCAATTTGGTCCGTTNCGCCA  
AGGGGGGTAAAGTTNGAATTCCTTGGGGCNAAGTTCCAACCCANTAAAGGCCTTCCT  
NAACNTTTTTNGTTTTNNAACCTTTTTTTTTTAANGNCCTTTTTTTTGAAATCCCAAAAA  
AAAAATTCNTTTAACCTTTTTTTTAAATAAAGGGGGAAGGCCAAGTTTTTTTTTCAAAA  
ACTTCCCTTAAAAAAATGGNTTNGGAAAATTAANTAAATTTAAGGTTCCANGGNTTT  
AAAAAAATTTCCACCCCAAGGCCCTTACCCNCCAANGGGGNAAAATTAACCAAGGGGGA  
ACCTTTTTTTNGAA

Sequence 765

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGNTTGTGTAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAATCAGTATTTTATACAATCANGCTAATAGCCTAATTTGTTGAGCACAGAAAA  
ATACACTGAACCAATTCTGATTATTGCANGAGAAATGATTGGCAGGATATTGGGAAATAA  
GAATGAAGGGCGGANAGAATTTACATGGATTCAATATACTCTCCGTCAGNGAATTTTTG  
TT

Sequence 766

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGTTTGTGTAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAAT  
ACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAGAA  
TGAAGGGCGGAAANAATTTACATGGATTGAGTATACTCTCCGTCAGGAATTTTGTCCC  
TTGATCTTTTTGTGGTTTAAATGCCTTAATTTATTGGGGCCCTCTCATANGTTTGGGGG

Sequence 767

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAAT  
GTTCCCGAAACAAACAAACAAAAACCCCAACATTTTCTGTTTCTTTCCCTCTGTA  
TTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTTATTAATA  
GATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAAGAAATAGATTAAGAGTAG  
GAAATATATAGATGAAGATGTACTGTATAGAAGTTGTGTAAAATCAGTATGAAAGTTCAA  
TGTTGCTGTTCTTGCTCAGTGGATTTTAAAGAAATGAGTAGTTCCTATGTGGATTTTTT  
TTTTTCTTTTCTAACTG

Sequence 768

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATNNANAAGCGTG CATG  
GGGATGAAAAAAAAATTTTTNNTNTATAATCNNGNTACAATATATACAATAAAACACCTA  
AAACGCAGAGGCTTGCCCTGTTTNTCCACAAATANGTTAAATACCCAAATTAGTAATTAA  
ATGGATTGGTGGTTATGGTAGGAACACCAAGACNAAAAAGCCAGGCCGGGACCGTNATTT  
TAATTNNGGGCCAGTACCACCACNATATAAAGGCCACCAACCAAAAAAGTCCANANANG  
CCAANAAANAAGNCAACCGCCCCAAGTTNAAATNGTTTTGTTGGGGAATTGNCCCAGTTA  
NTTCCAAAANGGAATTTTTGGTNCCCANTTANTTAAGGAACCAATTTAAATAATTCCCCC  
AGGTTTANGGAACNACCTTNGTTNAAATTAAGGTTTTTTTTTTGGGGTTNACCCCTTC  
GGGGGCNCCGCCNGNAACCCCANNCCGTCCTNTAAAAAGGGGNGGCCCGAAAAAT

Sequence 769

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTACTAAGGTTTTGTTTTGGAGA  
CTTGTGTTGAAATAAAGTGATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATG  
CTAGGGATTAGGAAGGCTAATGTGAAGTATGAAAAGTATGAATTATGGAATGCCTTTAG  
ATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTAGAGAAAAGTTGTA  
AGAATGGCATAAGGAAGTCTATATATCC; TTATCTAGATTCACTAAATGTTTCAATTTGT  
GCCATTTGTGTTATTCTTTGTCTCATCCTAGCCCAGTCAGCCTAACACCACCCAGGGGAT  
AAACCAGTAGTCTGATA

Sequence 770

GATATCTGCAGAATTCGCCCTTTGAGCGGCCGCCCGGGCAGGTACCTCTCATTTGTCA  
CTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCTGCTGGGTGATCCAGACCA  
CACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCTACTGTCTTTTCATTTATGTCAAGG  
CAGGGGAAGACCTCAAAGGGCTCTTGATCCCAGTCTCACTTCCCAAGAGAGGCACGAGG  
CCCTCCAGGATGTGGGGACAGGAACTTTGGGGCAAGCCCGGGGCTGTCCAGAAGATCACC  
AGGAGGGGCTAAATAGTAGAAAGGAAAAGTCTTATTGGTGATATGTTTGCAAACTGGGAAA  
AAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGGGCAGCTTG  
GATTTTGTGCCTTACANGGTCNGTATTATATAATAGAGTCATGCATATTCANTAGGTTTG  
GGGGAAAAGCTATATATATTTATGAAGGGGAGCCAACTACATGGGCAATGGATAAACATA  
CATGTAACACATCCATGTTCACTTTAGGGGCA

Sequence 771

GGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACAAATAAAGTATTCCA  
AGGGNNGNAGAATNGAAAANGANGNCTNNCANCTTGNTNNCNTTTGGGAAATTGGGATAT  
CCTTTGGGGAAATGTAGTAATCAGTATATTCTGGGNAAAACATTAGTTAGAAGAATTGAA  
NTAAATAAAATTTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACATTAATGCT  
ATCAANGATAAAGTANGAAATACCACATTTTCAGNAAACAAGCTTGGAAAGTAGNACAAGGT  
CCTTCATTAGNGCCNTAGCCTTGGNAAACCTTAATAANCCTATNTAAATAAAATTGAAA  
ANTTTTTAAATTTATNACTCCTGG

Sequence 772

TGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACCACCAATAATGAGGCCACATT  
GTGTATGCTAAAAAAAAGTGNTTTTNTNTTCTTGGGCCTACAAGAACATGTTTCTG  
TCCGCTAAGGAGAAANTNAAGAAAAACAATGGCCCCCTTNCCTTCCNATNAANCCCCAAA  
ANCCCTAAACNTCAGGGGGANGTTGNAATTTTAAGGAANTCCACCCCTTTNTNGGGGN  
NNCANTTTTTTTCCCCCCCCAANAACCAACNCCCCATTTACCCTCCTTNGTTAAGAAA  
TTTTCCNTTGGAAATTNAATNGCCNACCTTCCTTTTAAANAAGGNANAAGCCCTNNACCNA  
AGGCTTTCCTTTTCCCCCCCCAATTTNCCCCCTTNATTCTNTTGGAAAAANGGCCNAAC  
GGGGGAAACCCCCACCCTTTGGGCCNTTTTTTGGNGGGTTCCCAAGGGGAAAAAAACC  
AAGGGGCCNATTTANCCNAAAACCCAATTCACANGGANATTGGTTTGGNAATTTTAATTA  
AAAAAATTNGGGGGCCCCNACCCATAATTTTCTTTAAAAAAAANGGTAAAA

Sequence 773

CCCTTAGCGTGGTTCGCGGCCGAGGTACTATCATCCCCCAAGGCCTTTTACAGTCTGAAAT  
ATCAAAATTGAAAGCAAAATAGGATGACCAAGGACTACTATTTNACTCTCTTTTCAGN  
AACNTCNTACAATATGTATGAAAACCTAAATATCCACTNTATGGGATCATCANNGGGG  
GAANNNTAANTGTTGCCNTGTTTTNGNAAANGGGGCATTCANGATGTATTTGGGATGTN  
CNCANGGNCCTGGGGCANTTTTATNTCAAGGATGNAAGGGGNTNNCATTAACTGAACCA  
AGTGGANTGACANGGTCTTCNCNTTATAAATACCAANGGGGCCGNGTTNTGGCNAACCC  
CANGCCACCCCAATTGGAACCTTATGGGGGGGCTTNGGCCNTTTTTTANAAAAANAACCA  
AAAAATTTTTTTCTTAAAGGGGGAACCTTTACCCGGNCCCTCCTTNTTTGGGGGG

Table 1

## Sequence 774

CCCTTTTCGAGCGGCCGCGGGCAGGTACATATACATTATGTAATTA AAAAGCGTGCATG  
TGATGTATTAAAAATAATGGTATATAAAACAAAATTACAATTATATACCAAATAAAAAAC  
CACNCTAAACGCCANNAGGGCATGCTTGTATTCCACCACATATTAGNTAATAACCCAAA  
TAGATAATTAAANTGGAATTGGGTG

## Sequence 775

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT GAGAGGGGTCATC  
CTCCAATCATTAACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTAGCAA  
CAGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAAGGTTCT  
TGATCGGTTTGAACCCCNACAGCGCGCCAAC

## Sequence 776

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT TGGNCTGCC  
GTGGAGAGGATGGATGGGAGGGGGAAGAACGAGAGCTTGTAGAGGCTGCTGTANTAA  
TCCAGGTAAGGCTTTTAATCATGTCTGAACAATGATCAGCAATGGCAATGGANATGAC  
AGAACANAATTAANAAGGAATAAAAAAGGCTTCTGACTACTTGGATGTGGGTGANG

## Sequence 777

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTA  
TTGATAATTTTACATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTTGGATCTTGNATGC  
ACTTCGGGAAAGCCAAGTTTCCGTAAGGGTAAAATCGNAAANTGAAAGNAAAACCTTT  
AAGACCAGNCAGCTTTGAAGGTCAGCCTTGAGTAANACAGNAATTTAATACCAATTTTAA  
GAAGGAATTTGGAANAANGAAATGGCCTTGAAANAGGTTAGGCCAAAGGGGCTTAGG  
GTTAAGTTCNCTTTAACCCCAAGGAAAGGAAGGCCTTNCCCATGGGGGGGGAAGNAAAG  
NANGNCCTTNAAAAAGGCCCTTTTAACCCCTTAAACCCCTTTTTTCAAGGGGGGAAAAAAA  
AATTNTTGGAAAGGTTNGNAAAGGTTCCANGGTTTCCANAAGGTTNGGAAAAAAGTAA  
AGGAACCTTTTTTGGGGGATAAAAAAAGGGAAACCCCTTCCCAAGTANTTTTTTTGGG  
AAAAAAGG

## Sequence 778

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGA  
AGCTGGGAAGTATTCCCTCCTCTTCTATTTTTTTGGGAGGACTATGTGAAGAACTGGTNT  
TAATAAAAACCTCCTTATTAAGGAAATTTTAAACATACCAAAAAATAGTAAGAATAGTAT  
CATGAGTTCCTGTGTGTATTCCCGCCTAAGTCAATAATTATCAATAGTCCACCATTCT  
TATTTTACTTATACTTCCCTCCCAACACCTTACTCTTTTGGCGGGGGCTGAAATTATT  
TTAAAGTAAATCCCAAGACATATCATTACCTTTAAATACTTCAAATGTATATCTTCTAA  
CAGGATAAAGGACTTTTTTTT

## Sequence 779

CCCTTAGCGTGGTCGCGGCCGAGGTACTACGAAGCTGCAGATCATTACGCTGATATGAAT  
GACTGCTTGAAAGAACAATGACTCTGGCACAGCCACTGCTTTTCACCCAGGAAAGCAGTT  
TTTCACAGAATGGCTTTGATTTATCTTTGCACACCATTGAGAGAATAAAAAAGAAAATCT  
AAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCACTCACTTTATGTGATA  
ATGATATATAATTTATATACTGAAATTTTTCAGGATCCACTTACTGTGCTTAAACC  
CGAAAGTGAATGATTAAAGAGGCAATGGAATTATCTAATGTATCTTTTATAAATTAAGAA  
ATCAA

## Sequence 780

CCCTTTTCGAGCGGCCGCGCCGCGGGCAGGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT  
AAATTTTCATCGTGTGTGTCTAATTTTTTTTCTGTATGAATGGGGTAAAAACAAAACANN  
AACTTTTTTTTAGGAAGATTGTAATTTTGCNTGTCATGTTTTTNGTAGGNAATGAGGGGN  
ACTCGTTTGNAGTCTTACCTAACNCATCCCTGNGNAGTTTNTGAAGTTTGGAAAGNCC  
ATTGAAANNATTGTGTTGCCCCCAATGNCCCTTGGACCNGCCTTNACAGTCCGNCNCTT  
NNGGATTCTTGAACCGTTGTC

## Sequence 781

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT TGGCGGATGAG  
TCTTTTAATAGAAAAACACACGTGCAACAGTATCAANACACATTTTTTNGCAATCCTGAC  
AGCAGCTGAACCTTCAGTTCTTCACTTGGGGGGTGGCCTGTACATATCAAAATCTATCAA  
ATTGGACCCTCAACTATGCATTTTTCTGNGTGCAAGTTATATCTCAATTACAAACAAACA  
AAAACACAAAACCTATGGTTAACCCAAAACCTAACTATNACCAAGAAATATCAATTGG  
GGTTATGGCATGACCATCTCCCAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGA

Table 1

## Sequence 782

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAATAAATGAGTTTGCAGTGAATTGGGCCTT  
CAAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTNTTTGAGCAGGTGGAGGTCACTGA  
ATCCCCTACTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTTGATTTT  
TAAAAAATGACTACACTGTAAACAAGGGAAGGGATCTGGGTTTTTTTGTGTTTTATTCTT  
GTTTTTTTTAAGTAGTTCAAATCTGAACTGTGATTTAAAAATTTTTTACAGTCAAGCA  
TTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAGGTCTCTCTGTTATCTC  
TTAAATTT

## Sequence 783

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCACTGTCTTTGCCATGAAACTTTATAACA  
TGGCTCTCCAGGTGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGG  
CAATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCCTTGATATTTGAGGTATCAG  
CTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCTNTCCCAACCATTGTC  
TTAACTTCCCTGGCCAGGATGCCTGCCATATTAAATGGAGAGGAGGCAGTTTCTAAATGG  
CTTGACTTTGGTTGAAGTCTCAACTCAGGAAGCTCTGAAATTAATCCACCC

## Sequence 784

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGG  
TCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAAGTTGAAGATTAGTCCGCCGTA  
TTTCGGTGTACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGACT  
TCTCTTTAGTTCANGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTAGAAGTCTTAA  
TAT

## Sequence 785

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAGGATATGTGTGCATTACATGCAACCACTA  
CACCATTAAATATCTGGGGTGTGAGTATCCGTGGGTTTTTGGNATCCGTGGGGGTCTCGG  
AACCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCTTGT  
TTAAGCTTCAAAGATTATGTGATCTAGGAGTTGTTAGATTTTATTATTGGTCTTAAAG  
ATAAGCTTANATGTTGTTACTTTTTTGGAGTTTTTGTGTTTACAGTGATTTTATGAATCGG  
GCAGCTTCANACCACAGGAGACATNAAGCAGGTTTNAATTTTCAANGAAAGGCNTTTACA  
AGGCAAAAATATTTTGAATTTGGTTTGA

## Sequence 786

TGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAACTAAACTGAGCAGTTTAA  
ACATTCATTTAAAGGGATATCTAATGTGTTATTATTAACATAAATAATGTTTTTATGAA  
AAATGTAACCTTNGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTTACA  
TTATTGCATCTCAGTTGAAAAATAAATGGCAACAAAAATCTTATATCTGCTTCTGCAGT  
TAATCTGNCTCATTTTGTGTTGTTGAANTATATTGAAGGAAATCTGTTCTCCACACAGT  
TTGTGTAGTGGGAAAAGGGGGGAC

## Sequence 787

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTGGTTAAGCAGGCATTGCTTTG  
CCCTGGAGCAGCTATTTTAAGCCATCTCANATTCTGTCTAAAGGGGTTTTTTTGGGAAGA  
CGTTTTTCTTTATCGCCCTGAGAAAGGATCTACCCCGAGAGGGAGNAATCTGTAGNACAT  
TCTTTGCCTACTTNTTACTTTTATTAGGCTNTTCTTCCCTNCAATTTCAATTTTCTGT  
ATTACCACCCTTTTTTCCCTTTTTTTTGGGGGGGAAGA

## Sequence 788

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGCCCTCTACACCTACCTCTCTCTGGGC  
TTNTATTTTCGACCGCATGATGTTGGCATCTGGAAGGCGGGAGCCACTTCTTCCGTGAA  
ACTTGGCCGTAGGGAGTAAGTCGCCGAGGGTCTNCNAGNCGTTCTTTNCTTGAAGGATGC  
ANANACCCATGGCGTTGNGCGGACCGCGCNTCTTCTTTCCATNGGAACATTCAAAGGNN  
AGNCNCAAGTTTTGNATAGTANTGTAANTTTGGGNGGGTTAAAAACCTNCCCAANGNAC  
CGGCCCTATTGNAAAAAAGNCCTTGNCTCCAANTGNGGCCCCCTTGGGGTAAGTNAAAA  
AAAAAAGTCCCTTGTAANCCCCAAGGGGCCCCCTTTTTTTGGGGGAATTTCC

## Sequence 789

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTAATTTCTTTATAATTTGTTTCACTATTT  
AAAAAGATAATCCACAACTCTCCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAAT  
AAAGGAAAAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACATATA  
CCCAGGCCTCAGCGGTGGGAAGAAAACATACAACCACCGGGCAAAATGTTTGAACACTGA  
AGACGGGAATTTTTTAGGGCC

Table 1

## Sequence 790

CCCTTAGCGTGGTCCGNNGCCCGAGGTACTCAAGTCGCCCTTATGGAGCCCTTGATTACAG  
GCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTCAGGGAATGAAGTAAGTGTTTTT  
ATGTTCCGTGTGTTATAACACCTGATTAAGAGAAAAACAGAATGATGAAAATGAAAAGCCG  
TCTTAAGTGGATTCAAGTTTCTCACTACATAAAAAACAGAAAAGTCAAGGTGGAGGCAAG  
ATCCCCACCCTCTCCAGCAGAATTGGCATTCTGCGTCCTTACCGGCTTTCTGTACAGTGG  
ATTTCCGCCTGTTTCCTCATTGCCTCATGGAAATAGTTTCATATCATAGAAAGGCAAACA  
GGAGCTGAGCCAGTTTGAACTGAACCTACAATCTGAGGTGGGGGGTAATCTCGAGCAGA  
AGTGCTAGATGGTGAAAAACAAGTAGGACTTTCGGCTGATGGGTAGAAACAAGGACCTT  
NGTAAAGAATATTCATGTGCTCAAAAAGGAATAACTTCTGGCTAATTCTTGCCTTTTTCT  
TCGTTTTTAAATTAATTGGATATTATGTTTTCTGCTCTTAAAAATTACTNNGTNCACAG  
AAGCTACCAAAAAAAAAAAAAAAAAAAAAA

## Sequence 791

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTTTTCCTCT  
TTCCTAGACCGATTCTAGTTTGCTTCCCTTTCCTCGGAAACCCCAAGTTTGTGGAT  
GCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAA  
GACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAGCCTCAGTTCTTCCAT  
GTTAGGTGATTNCTTGACGCTCTTGGTATCTGCAGAAATTAGTGGAATGCTTAAAAATA  
TTAACAGCTTTATATCATCAAAGTTTTAACAGTACCTGCCCGGGGCGGNCCTCGAAAG  
GG

## Sequence 792

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GCTGAAGGCCACAGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTAACCTTTA  
CTGGCTACTTTGTANATAACATTACAGCTCACCATGAATGCAGCTGCAGTCAACTAACA  
NATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCTTNTACCTACTGGAGG  
CTGGGGAGGAATGTAACAGCACAAGCCATAATGAAGTTTATATACAGGCTTAATATAAAA  
NAAAACCCTAGAATGAACTCAACACAATTAT

## Sequence 793

TTTTTGCAGAAATTCGCCCTTTCGAGCGGCCCGCCCGGGCAGGTACCATGCAGGGATAGCTG  
AGTCTTCATCCTCCTCAGCCCCATCTGTTCAAGTGCAGTGAACACCAGCTGCTCTCTTCC  
TCTCTGGCTCCCATGGCAGCCATGGTCTGTTGCAGAGAGAAGAGGATTGCTGTTCCTC  
TTTAAGGGAACCTCCGTTTTGCTTTCTGGAACCA

## Sequence 794

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGAACTTAAATTTATGATGAATATCTTTGAT  
AATGAGAAATCCTGAGAGATTTTACTTTCAATTTTATTTTAAATTTGAAAGCATATGAC  
ATCTGGAATATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAATA  
GAGTAATCTACTGTTGGATTTTAAATTTTAAATCATATTAAGTTTAACTGGATTTTATT  
TTAGGACTAAAATATTTAGGACTAAATAAAATTTTATTAATTAATTTAGGACTTTTGGGA  
AAAGATATTTCAGAAGTTCAGTGCATATCAAAAAGCGAACAACAGAGGCTTCATCTTTT  
GAAAACCTCATTGGCTAAAAGTGCTTCTGTAATACTGATAGTGAAGAACTGTTTTTAC  
ATCCCGAGATGTGTTTGATG

## Sequence 795

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCCTAGGTGATCTTTGGCTTCTCAAGTTTTTG  
CACCACCTCAGAATCATTTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACT  
GAAGGAAGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCTAGAAAGAGAGATT  
ACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGAAAATTTGGCAGGGT  
GGACCACCTAACTTGACAGTGATTATTGTGTCTGTTTTGAAGGAATAAAATGGAATTAT  
TTATAAAGTTTTCATTTGTATTAGAGA

## Sequence 796

CCCTTAGCGTGGTCGCGGCCGAGGTACACTATCTGACCTAATCCTCAACACAACTAAGG  
CAGGAGACACAGGGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTAT  
CAATCTGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAGTATTATTA  
GTTGGAATTTTAGGGATGAGAAAACAGCCCTCAGGGAGAATAACTGACTTGCCCCGGCT  
CCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCAGGTGTGTCTGACCCCGAAGCCTGAT  
CTGACCTCTGACAGTCGTGATAAAAAATAAT

## Sequence 797

Table 1

CCCTTGGCCGCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATTTACCACAATAA  
AAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTTG  
GTTTTTTTTCTCTTTATTTTATTTTGACCAATGGATTCACGTCACCAGGTGATTTTTT  
AAACAGCTTTATTGAGATATATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAG  
TTAAATGTTTTTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCA

Sequence 798

CCCTTTTCGAGCGGCCCGGGCAGGTACAATTTTTATGTTTACAGCTGTAACCCCTGAG  
TTATCAAGAGATGGAACATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCT  
TGATTACATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGAAAG  
GTTTTGATTCTTATGAGAAAAGAAATGAGATTTCTTAACTGGAAAATGATTTATGTCCT  
ACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTATCNCTAGGGTGTCTGNAGAAGTA  
TCTATATATTGCTTTTTAAGTTCTTAT

Sequence 799

CCCTTTTCGAGCGGCCCGGGCAGGTACCATGTAGCTCTACTTTTCCATATACAGAGTT  
GTTTCCTAGCTTTCTGCTAATCTAACTGGATTCTCTTCCCCATTTCTCATTTACTAGA  
TTATAATGCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTTCTT  
TTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCATGATTCAGTGACT  
AGGCTGTAGGAGGGAAGAACCTTGCCTTAAACAGTTTATTTTACCCAATAATACTACTT  
TGCCTTCTTACTTAAAAATGTCCCGTGCTTAACCCTTTTGCTCTTTATTTTGATTTAAGC  
ACTTGACC

Sequence 800

CCCTTAGCGTGGTCGCGGCCGAGGTACTNTCTATTTTTAACAAGGCTCCCTCAAGATATT  
AATGTGACAACTTACATAGCCAGCTGTAAGATAATTCTTTCAAATGCGCAAGTAACCTA  
ACAGATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTTTCC  
CAAATCTAAATGAATGGAGATAAAATGCTATATAATAAATATGTTAGAGCACCTTTCTT  
GAGAACTTNTAAAAGGAAAAAATAAAAGACATAATTATACTCACACCACAGTAAACCC  
TCTGGTCACCTGTTTTGGGTTGTGGGAATGCCCCCAGCAGCCGAGAGACCTATATT

Sequence 801

GATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTATTCTCC  
TGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTGTGAGTTTTGCATTCCAAGTTGCTA  
ATTCAACATAGATCCTAATTCCTTAAATGCTTGTAAATTAGAAATTCGTGAAGTGTATT  
GTTTTTGTCAAGCAATCTGTTTGGGGAAGTTGAGCAACTGGGGCACTGCTGGCTAGGGT  
GAAGTTTATTTAATTTGGTTTTATGACATTCTTCATCTTGGAATGGGGTTTTCAAATAT  
TGCTTTCCCAAGCATCATTACTTATTTGCTGGTTTTTA

Sequence 802

CCCTTTGAGCGGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGCCTCAA  
ACATTTTCTGTGTGACCTGAGGCANGTCTTTTATAGCTATAAACTAGGGACAATATTTG  
CTGTCATTTTTTCTACAAATGTCACAAAGAACAAATTTGAGCCTGTCGCTGTGAAAGAAC  
TTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATTTTATCCAATTAAGT  
TTTCAAATGAGTTTATTTGCTCACTGAACTGAAGTACCTCNGGCGGGACCACNCTAAG  
GG

Sequence 803

CCCTTTTCGAGCGGCCCGGGCAGGTACGCGGGGGTTTCAGCTGTCTCTTACTTTTAAAC  
CAGTGAAATTGACCTGCCCGTGAAGAGGCGGGCATGACACAGCAAGACNAGAAGACCCTA  
TGGAGCTTTAATTTATTAATGCAAACAGTACGCTTGGGAGTCCTCAGCAGGGGGATCATT  
CACAGTGAGGACAGACACAGGTGAACCTATGGGTCTGGAACAAAAGTTATCCTACACCT  
GAAAGAAGACCANACTGAGTNCCTNGGCCGNGACCACGCTAAGGGCGAATTCATCACAC  
TTGGCGGC

Sequence 804

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTG  
GACAGTTGGCAGGCTCTTCACTTGAGAGGCTTATATCTTAACGATTTAGAATGGAGAGT  
TTGGCTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTATTCCAG  
AGTCTGGAGGCTTCTTTTTTAAAAATTTGCTAGGCTCCTGCCAAATGTTATAATTTGGGG  
ATGTGAGTTCACTAAGAAATCAACTGACAAGAGGCAGATTAATAGGAGAAATGACATCGA  
AATTTATTAGCATGCAGGGGGGAAAAAATTGATTACCAAATATCCCAGTAGGGTAGAGATG

Table 1

CTTATATACCCACCTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAAT  
ACTTTTTATGGGAACTCACTGGGCTTGAAGAATATAACAAAGGCCTGGGACAAAGTCTGT  
TGGGCCACCAGAACAAGACAGTGGTTTATGACAAAAGTCTGTTGAGAATGTATTGAACA  
GACTTCAATCTTTCTTCTTGAATATGATTCAAGTTNAAGGAAAAGTGGGAAGGGACTA  
GAGGGAAATNGT

Sequence 805

CCCTTCGAGCGCGCCGCGGGCAGGTCCGGGCAGGTACTATTACTAGGTTCAATTGTTCC  
AGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATT  
AAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCTATTC  
TCTTGAATACCTCCAACATAGGAGGCAAGAAGTGAAGTATTATACAGTTGAGGAGATA  
AAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGCTGGGATTATCCTGGCTTGTTCTG  
ATAGGTCAGTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAAATGGGGCTCAGAGT  
AGCCTTGTCCTTCTTGTCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTG  
GAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTATGTGCACCCAACACACTTTCTAG  
CTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATGCACAGTGTGGTCT  
CGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGG

Sequence 806

CCCTTAGCGTGGTCGCGGCCGAGGTACACATATATACACATATATAGATATATACACC  
CACATATATATTTGCTGAGATTTTAAATGTGAAGTTTGTAGTCTGGGATATAAAATGGAATG  
TATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTACATTTAATTTTCCAA  
AGCAAAACATTTTCAAGTTGAGGATTTTATTAGAAAATAAATAATCATTTAGCCATATCTAG  
AAACCAGAATAAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT  
TCATGTGTTTACTTTTCACTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTA  
CTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTTGAACAAACGAACCTTAATA  
GCGGCTGCACCATCGGGATGTCCTGATCCAACATCGAGGGTCGTAAACCCATTGGT

Sequence 807

CCCTTTGAGCGCGCCGCGGGCAAATTCATGATGTCAGACCACTGGAGTTTCCAGGG  
GCAACACCCCATACCGTCCCGCTGCAGAAGAGCATCANANGTTCAGAAGAATGCAAAGG  
ATCTCAGTGGGAACGCGGACAGGAGAGCCCCAAACCAACACATGCTAGGGCTCTCTAGGG  
CCTTTGAGGCTAGATCTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACTG  
AGGAAACGAAAGTTTCGGCCTCTGCTGTGAGATCTATGAAAGGAAAGAACTGTAACTG  
TCCCTTTTGTCTTTGACTTAAACAAAGAAATCACTGGAACAAAGTCTTAAAGT  
AATAACAGAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGCTAA  
CTTATAGCATCCACTGAGATTAGCCCGCATAGGATTCTTCCATGTTAGAGCTAAAGGA

Sequence 808

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCCCCTACCTATAAGGCATTTATAATGTGCT  
GGGCATTGTGACACTTTTCATATATTATCTCATGAAATCCTCACAATAATTCTGAAGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAAGTTAATTCAGTGGCCC  
AGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTC  
ACTCTCCCACTTCCCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATC  
AGATTTTCCACCTCTTTAAACCTCTTCAGTTCATATAATTTAAGGGTGTGACTATTCATA  
GATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAAT  
GCACGCTTNCCTGTAAATTAATAAATGCAACCCGAGCTTTGGGAAAAGCCCATCTTTTG  
ATATGAACAATTAGGGCAGTTTAAAGTTTGAATAAAGTCCACTGGTCTGCTTT  
T

Sequence 809

CCCTTTGAGCGCGCCGCGGGCAGGTACTTTTTCTTTCTTTTTTTTTTTTTTGGAA  
GAATATTGCATACCTATTAGAAAAGTCTTTTAAACAATTAATTTGAAAATGACTGACAA  
ACTTACACTATTTGATTTAAATAAATAAATGATGATGATAACAATCTCCTGATT  
GATGATGTTTTTAAACCAGGTTCTCAAACCATGGATGTGAAAACCAATTTTACAATG  
CANAGGTAAGTGTTGAGTGTTTAAATGGGATTTTCAATTAACATTAAGATCGTATTTGAC  
TAAAAATCTCTTATATACATTTCTAATACTGAAGCAAATCGCCAACGTGACTGTAAATTA  
TTTGAAAAATCACAATTTTCAAGTTAAATTTGAATAATTTTATTATAGGTCCTATAATCT  
TTTTAGCTTACATGGAATCAATGTGTCTTGATTTTTATTCTCGGTAATTTTATAAGGCC  
TTCATCTCCTTTGCGTTAAATGATTGCCCTCTCATTCCATTTAATGGNGGTTGTTACACT  
AGCAATCTGTTGGAATATTTACATGTGGGTTTCGGGATTTTCCAAAAATTTGAATTANTAG

Table 1

AACCTACCGCTGCAAAATAGATTAATTCACATGGGAAAAATCCTGGNCAAGGGGAANT  
TTCNNCATTAAATTNTTNCAGGGGAGTCCGGTTGGCCANCCAGAANTAAGGTNCTGGGT  
TNGGGGAATGGCTTAAAAGCCCTTGGGAAAAACAAATTGGCCAAAAANGGGAGTTACCT  
TTAATTGAANAANTTTTTTTTACCCTNAAAAANGGGATAAAATGNACTTGNCNAAAA  
AAAAAA

## Sequence 810

CCCTTAGCGGCGCCCGGGCAGGTACTCCATTTCTTTTTATTCATATTATTCACCAAAT  
AATATCCACTGTGTAGATCTATCACATTTCTTTAGCAGTTTATCAGCTGGTGACAAT  
TTGGCTGTTTCCATTTTTTGGCTGTTATGAATAATGCTGCTATGAGTCATAGAAACCATT  
CCTCTTACTCAAGAAACAGGTTCTCCAGAACTAAGCTAACTTGTTTGAAATGTAAATT  
CTCAGGTATTCTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAACCTC  
TTTTAACAAGTCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAACACTGTCAAAA  
TCAAAATGGAGTCACTTGTTTAAAAATCCTGACAAATAAGCCAGGGACAGCTATGAA  
GAGAGGGTTCTCATGCATCAATGCCTGATTAACAAAACTATCCCAATGACTCTGCAA  
AACC

## Sequence 811

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATTAAACTATGTTGTAATACTGTTTGTC  
TTTGATCCATTCTGGCGTGTCTCCATACACTTCACTAATTTGATATACCTGTTTTAT  
ACCAATATAATGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTTGTTCA  
ATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACAATATCTTCAAAGCCA  
TTATTATTCAGCTTAATGAAGGAAGTATTTGACTGGTGCAGCAGGCACAGAATAAGAGG  
AAAACAAAACCTCTGAATAACCCCAATTGTTCTCTCTAGTTATTCTGGCTCAAATGTTG  
GTTTGTTCCCGCGTCCTGCCCGGGCGCGCTCGAAGGGCGAATTCCAGCACACTGGCG  
GGCCGTTACTAGGTGGATCCGAGCTCGGAACCA

## Sequence 812

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAGAGTTATTAATACTATTTCACTAAAAAA  
AAAAATTTAATAAACCTGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTTCTGTTGT  
GAAATACAAATGCAAGGAAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCTCCATAA  
AGAATAATTTGATTTATTTTAAAGGGTTTATTTAACTTATACATCANCCTATNTAAAA  
TACATTTCAAATGATCTGTGCTCTTAAATTACCAAAAGCAA

## Sequence 813

CCCTTAGCGGCGCCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTCCCTACATTAC  
TCCAGAAATACAAAGCTTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGG  
TGAAATACTCCACANTTATTTCACTTCTCACTGGTGAGTCTGAATATAAGCTCTATGAGA  
GCAGGGACCTTGTCACTTATTACAAATATCCCCAGCCTCTAGAACAAGGCTGGCACAT  
AGTAGATGCACAAAAGGTGTTTGCTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAACTCAGGTTTCTCTGTGGGTTTCACAGTTTACTGG  
TCTTAAGAGGAGAGTTTCTAACTTGCTTATGATAAAAACACCTTCAGCATTTGNTA  
AAAATTACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGAGCTGATGAATCCT

## Sequence 814

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTT  
TTNNCA  
ANNATTAATAAAAAATTATTTTACTACAAACAGANAACGAATTAACCTANNANCCT  
AANATACTTTNTGGAATTGAAATGATACATTATATACCTATNANGATAATNGNNTATA  
NCGNNNCTAACTACAAATTAGTCATAAAAAANGACTTNTGTNCTATATCAATTAACAACT  
GGTATTAATAATTGANTATNATAAGACAATA

## Sequence 815

CCCTTTCGAGCGGCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTAATAAT  
CTTTAAAAATGCATATGGGGTCACTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC  
CGGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAAGG  
CCCGGCATTGCTGGAACCTCCTAATTTTAAAAAGATGATGGAACTTGAAATTTTATATT  
TAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGT  
CAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAG

## Sequence 816

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTT  
AGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTA

Table 1

TGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTCACAGAAAGATT  
TTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTATAAGCAGAGAACACA  
GCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTC  
AGATTAAGTCATCCAAGAAACATACAT

Sequence 817

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACATGTAATAGACACTA  
TGCTACAGCAAAAGCTTTTCTTATTGTCTTTAAAAATTTCTGGGTGCATAAACTATGT  
GGGTAACCTTTCCCAATTTTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTC  
ATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCNTGAGGACCAAAAATCCCAACACATT  
TTCAAAAGGGAGAAAAATTTCTTAACTTCATGGGAAAAGTATTTTAAACATAATAGAGA  
GGCTTTATGCAGTCTTTGACAAGATGATACTTTTGAATAGAACAAGGAAGAGGAAAAATA  
TTTCATATTATAAA

Sequence 818

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNNATTTTTTT  
TTTTTTTTTTTTTTTTCNNTTTNNATTTTGGACTTTTTTTTTTTTTTTTTTNNAAAAAAA  
ANTTAANTTTTTNAANNNTNNTTTTTTTTTTTTTTNAATNTTNTNNTTTTATTA  
ACAAANGAAAAANTNACTTTTTNTCCAAANANNCGGCCTGNAAAAACNTAAAAACAAT  
GCNNGGATGGANTCAAANTAAAAATTTTTTCTACGGAAAAANAACTTTTTTGGT  
TTTTTTTTAAGAAAAANNTAGNAAAAATTCNNTTNTTTTAAAAAGNTAAATNNGGNTTT  
TTTTTTAAA

Sequence 819

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGT  
TAGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATT  
ATGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTCACAGAAAGAT  
TTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACAC  
AGCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTT  
CAGATTTAAGTCATCCAAGAAACATACATACATTCTAAATGGTATATATTGGGAATATATG  
CCCCTTTAAAGAATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGT  
TAGGAGAAATGTGTGGGTCATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGTTGT  
CCAGTTTAACATAGTCTTAAAGTTTCTTAAACCCAAATAATTTATGA

Sequence 820

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGAAATTAGTTCCAACCTACTGCTGGTGATAAAC  
TCACCATCTACCTTCACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAG  
AATCATCATCAGATAATATTCTCCAAGATTCTTAAAGAAATTAATTTTATCTACTCTTA  
AATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTAATTCAAATTGCTCTT  
AATGATCCTAGAGAGAAATGAATTACTAGAGATAAAAGATAAATTTGCTGTGGTTTGGC  
ATCTTTGTTCTTTCTTAAACCTTAACA

Sequence 821

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGAACCAGACCTTACTTAAGCCCACCAAAGG  
CAAGGTTTGGGCCTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTT  
AAAATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAATTAGTATA  
CAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGCCTACCACTGCTTGGC  
CTCAGTGTGAATTTAGACCCCATCTTCTGATTTTCAAGGAGAAAGTAAAAATCTAGATT  
TTATCTAAAAATCTTTTAAATTTTAAACAGTCACCTGATT

Sequence 822

CCCTTAGCGGCCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGA  
CCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTA  
ACTTCCCTCACCACCTTTCCGATATGGACAGTTCTCATGCCCAGAAGCAAAACCTTCTT  
ATTGTGCCTGTCTCCCTTGACTGTCATGCATATAATCAGCATCTTTCCCACTAAGTGAA  
GGGCCCAGACTCGAGCACAGGAGCACAGCACCCCTTAAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCATT

Sequence 823

CCCTTAGCGGCCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTT  
GAGAAAGGGGACTTGAAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCC  
TACGTTTGTTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCCTGGGT  
CCTTAGGCTTCTCCAGGCAATGTAGTTGCCTCTTCTCTCCCCGCGTACATAGTAAGTG

Table 1

TATGATAGATGTTTGATTTGTAAATTACAAATATAAATTATCACCCCCATTTCATTAT  
TTTCTTGATATATCAAAATGTGTTG

Sequence 824

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAG  
TTACAGGGTGAATCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAA  
TTGGGAGATATTAGATGATGACATCTAAGTATTTAAATAAGGAGATATTAATGATGACT  
CCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGTGGGAAAGGACAGTTC  
TTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTTGAGCTTCGCCGACACGAGGTGACC  
ATCTGCAATTACGAAGCATCTGCCAACCAGCAGACCATA

Sequence 825

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCATGGCTTTTTGGTTCCAGCANTGAGGGC  
ATTGGTGAGATCAGTGGTAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAAC  
GTNANGACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAAC  
AAAAAAGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGA  
AAGGTGGTCTGTGGATCTGTCTGAATAG. AAGAGCACAGTNAGTATGCATTGCCGGAGAA  
AACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTG

Sequence 826

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA  
TTGTGATACAGGAACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTA  
CCTCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGACATCCT  
AGAAGCTTCTCTATTACCACAGNAACTGGCTAACTANANATGATCTTCCCTAATTTTCA  
TGAGCATCTTTTTCTGATATAAACCAGGGAGGGAAAAAACAAGTTCCTTCACTTTGA  
AGGGAATATTC

Sequence 827

CCCTTAGCGTGGTCGCGGCCGAGGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGT  
TCACTTAATTTTTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTT  
TATTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTTTTGAA  
TATGATTTGAATTAATATAGAAAAGTGCATTTTTCCAGTTTTTTAGGGAAAAGGAGAT  
ACTTCACCAGGAGGATAAAAAGGAACAAGAGGGGAAGGGGAAATAAAATTCCAGAAAGA  
TGAAAAATTGTTGATGTAAGATGGAGGCACATTTT

Sequence 828

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACAAGCTTTGTTAAACTAACCCTTGCCATCC  
TGGCTACTTTACCCAATTAACCACCCTAGCCCAGGACGTTTTGCTTTATCACATGTTTAC  
AGTTTGCTATTCTTTGTTCAATCTTGTAACTGACTGCAACTGCTTCTGTGGGTCTCTGTT  
TCTTTATGAAGTTTCCCAGGCCATACAAAACCTTGTTAGCCTATCTTCTGTCAGTTTAA  
TTGTGGAACTCAGCCAGGCCCTTAAGAGGATGGAGGAGAGTTTTTCCACAGCAGTTCTG  
AATGGGATGAAGTGAAAAATAAAATCTCCCCATTGCCACTACACCACCTCCTGATGAGTC  
TTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGT  
TTTATATATTTTCATATCTGGGGGCTTTGATAATTATATATACATACTTTTTTGAAATTAT  
TTACTTATTCTTACATTGAAAAGGAACCTTGCTTTGTAAATCTAAATCCCTTTNCCTTC  
TACATTTTTTTT

Sequence 829

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTCACAAGCAATAACAGATTCATAGATCAGTT  
GACATTGGCTGGTCTCCAGGACAGGAATGTGGCCAAAAGGGTGCTTTGTATAGACGCGGG  
GCACTGAATCTGTGTCTCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAAT  
ACTTTCAGAATGATTTTTACTACTGCAAGTTTTTGGTCTTTAAATGTCAAGTAGCATC  
TCTCTCTTCTCTCTGTCTCTTCTGTTTCTCTCTCCAGTTTTTTTTTTTTTAAATTT  
CCATATGGGCTAAAGAATCCAAATATTTTAAAAATCTGNCTCTCTTTTCTCTCTCATAA  
AGTGAATTATTCCTCTTTTTGTTTTATGTAAGTGATATATCTTAGTTTTTCTTGAAA  
TCATTGTAATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTTCA  
ACAAAAAAACCTTTAATT

Sequence 830

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCTTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTGTA  
TATTGTTGTAGCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT

Table 1

TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTTAGAC  
TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGA  
GCTGTGACCACATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGAAG  
TCTCCTTAAATGTTTCACA

Sequence 831

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGAAGTCACCACT  
AGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAA  
GGGTAGTTATCTAGTTTCCTTCTTTTCTTTTTTGGAAATTTGGTCTTTTAAGGTCTTGAT  
AATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAAATCAGGACTCAGTTTACTT  
AATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC  
TCTTATTAGCATGGATGCTTAAGAACTTCANGGGTTTGGAGGTGAGCTTGAACAGCTGTT  
TTTTGCACTCTCCCTGGTTTTTAGTAGCCTGAGTCTATAAAAAGAATACCACTCGGGTAA  
AAGCTAATATCCTTTAANCCATTTTTTACCTTGATACCATTGCATTAAGAAAGNATTATT  
CAATGGGCTTTTCAATTTGCTTTTTTGGGCTTTTTTGGCTTNAANTCAAAGTGTNAAGAAAG  
AATTGCCATGGNTTTAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGG

Sequence 832

CCCTTAGCGTGGTCGCGGCCCGANGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGG  
ATCTGTAGTGTAAGCTAGGGAGAAAGAGGAAGAGATGCCTGTTTGAATTTCTGTAACATA  
GCGTATCTCCAAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGATGGAA  
AGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTAACATACACTCCCTCA  
CCCCTACCCCCAGCTTAGAAGGGCAGGAACCTGCTGTCCAAAACAGGAAATATAGGAAAT  
CCAGCTTGAGAAACTATCCACT

Sequence 833

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGNCA  
AGTAGAAATCAAACAGTCCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGT  
TATGAAACTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCATTT  
AGAGAGACTGTTCCAATAACTCTCATTTAATTGGTGAAAAAATTAATATTGGTTAGAT  
ACTTACCTAAATATTACTAGTTAAATCAAAGTAAATGAGTCTGTATCTTTAAACTACT  
TGGCAGTAATAATTTTTTAAAGTAGATTTTTATTGCTTTTCTTGAACCTAAGTGTTCAT  
TACAACACAGGTAGTTTTATTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAAATG  
TTCACAATCAACGCCTGTCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAACACA  
ATTACAAAAATAAGAAATGGTATTTGGTCAATCTCTGAGTTCAATCTGTGCTCTAGTAAA  
TATAACTTGNGAGGAAAAAGTAAAAAGGNCAAGAGTCTAATTCATTTTCAGTTTTTAA

Sequence 834

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNTTTT  
TTATCTGACCACTTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTC  
TTTGATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTTCCCTCATTG  
CCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCCTCATCATCCCCATTTTCA  
GATGCATAAACAGAGGCCAGTCAGTATGCCTGCAGACTGTGGATAGAGCCCCGAAGCCTCA  
GGTTAGGCAGCTTGATCCAGCTGTGAGTCCCAGCTAGGGGAAGTGAATCAGCCTCCATC  
ACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGT  
AGCTGTGAGTATTAATTAACGCTGATGCAGGGCAGGTGAGCCCCCAAATTGGGGTTTAG  
CTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCA

Sequence 835

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
ATTTAATGGAAGAAAAGTCCAACCTTAATAACTTTAATGGANAAAGAAGGAAGCANTATAA  
ATTTGTGGAGACTCCAATCACATGTCCTCCACTCTGCTACCCTGGGCCCAAATAAGGGA  
GGAGACACTCANAGCCAGGTGTTCCCTTGATGGGAATGTGATCAGGNGCGACATGGGCT  
CACAGCCTCNCTGAGGCTGGATCTTT

Sequence 836

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATC  
TAAATCAGCCTTACGTGGGATCTGCCAAAGTATTATTGCAAAAGTATCATTTTCAGT  
TTTAACTTTTGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGGCAGGCAGA  
GAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTTTAGTAGGACACTTAAGTA  
TTTCAGTCAGCGGATTTGAATCTGACTTCTTGGATGCATCTGTATCAAAACATACCATT  
GATGTGTTACAGAACTGAGCAGCATATCATTAGATGTGTTACAGAACTGAGTCCTACTTA

Table 1

CAATAATTAATTTAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAA  
TTGGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTTTGCTTTGGCA  
TGTTTTACAATCCCGCGCA

Sequence 837

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCGAAACT  
TTAATAGGTTTTCTTAGCTTGACAACTCATTCTCTATATTCACNAACATCTCCTGACTTG  
TTCTTCAGTGGANATACCCTTTTCTAGCCAGAGTTGGCAAAGTAGCAATAGCATGCAT  
TGGCTTGTTTGANAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGGAGGTCTGTTATTG  
TCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCTTTGAAAGAATATTCAAAGACCAA  
CACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATGTAGAAACAGTGACAAGTTAGAA  
AATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAA  
TTTATAACAGCTGAAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTTACT  
AGACTAAGGATTTATTGCATATTTTACTAATTTAAATG

Sequence 838

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTACAAAAATAATGAAGCCAGCTAATTACCAT  
CAGGTTACAACTTTACAAAGAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGA  
AAACAGCAGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAAGAA  
CAAAGGCCCTAATCCACCTCCTCACCCGCGTACTTTTTTTTTTTTTTTTTTTTNC  
CAGTTTCTGTTTCAAATCTTTATTATACATCATGGTTGCACAATTTGAGGCTGGTTAA  
TACAATTGGTTTTCAAATCTCTTTGAATATTTTCTGGCTTATTACATGCAAATGACCAT  
GAAAATATTTGGCATTTTAAATCTGAAACTCTGAATAGGCACCTGCATGAAGGAAAAC  
AT

Sequence 839

CCCTTAGCGTGGTCGCGGCCGAGGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTTC  
TGGTCTTGTAGTCGGTTTGAATTTTCTAAGTCAGGGTGGGGTGGGGGACTGTGCACGA  
GTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTGT  
CCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATCAAAGGGCGTTGGAGGAG  
GAGGCTGGGAGGGAAATCCAGACAGTTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCA  
TCGTGCTGTGGGTCCCTGAACAAGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAG  
GATCCAGTGTGGGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAAGT  
GACATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATCCACTCACC  
ATTTCCCTCCTCGTTCTTATTCTTAGAAATAAGACTCTGACGCTCTCTTTTATACAGGCT  
AGTCCCCTATAGGCATGTCATGGTGATTATTTGCAATCCTNCTGACTTTCCTAAGAAGAG  
ATCANACTTAGCAGGGTTAGTC

Sequence 840

GTGGTCGCGGCCGAGGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAGAA  
CAGGTTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATGACCCGG  
ACTTCCAACCTCTAAATCTCTGTCTCATTTACCTCTTTGTAAATAATCATTGCTATTATG  
TTAAATATCACAACTACTGTCAATTTCTTTTACCACTACATTCTAAGCTTGGTGCTGA  
CATCTTTGTATTTATTATATAAAATTCTCAAATTAATCTGCCCCGTTAGGCTTTCTTATC  
ACTTATTTCAAATGCAAAAATAAGGTCCAGGGAAGATAATTATGTNACTTGTTTCATGATT  
GGAGAGCTAATAAGTGTGAGAGATGAATTNAACCAAAGTTTGGTGTGACAAAAGCCTCTG  
GTTTTAAGCAAAGGGGAAAAAAATTTCTCATTAACTCCAAGGATTATCATCAGGGAGTC  
CAACAGGGTTCCCAATTTGGGAACTACCTATATTCAATTATCATATGGCAAATGGGTCCC  
CTTTTGTAGATGGAGAAGGGCCAAAAAATTTTTTTTTTTTTTTTTTTTTT

Sequence 841

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACT  
TATTATTATTCCTTCTTTGTAGAATGTATCAACACTAAAAGTGTAAATCCTGACTAT  
AACAATTATTTGTTAACTATTAAAGGGTAAATATACTCTAAGCTTCCAGTTTTAGTTA  
AAACAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATTTTT  
AAAGTGAAGTCTATTAGACTGCAACCAAGTAACTATTTATGCTTATAATTTTTCTCAGC  
ATGGATTTCTGTTCTTTGGTGCATTGGTTGTGTTTATTTTATGTGATCTTTTATAGCTA  
CAAGGTGGGAAAAATGACAGTGGTTTAGAAGATAAGAAGCACATGAATGTAAAGTAAAT  
ATGTGGAGATTTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTTAAG

Sequence 842

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCAC  
CTCACAGGCTCAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAA  
GCCACCACACTTATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTTACAAAGTGAC  
AGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCC  
AGAGAAGTATATTTGGGGTGGCATATTCTAGTCTCCTCCAAGTCATATTTGGGGTGGT  
GTGTCCTGAGCCCCAACAAGATAGGTTTCATTTTGAAAATTGCTCTTTCAGTCCCCTG  
TTCATTCTCATAAGCCCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAN  
GGTAGTTAGATGTTTGGTGGGACTAGAAAATGCAANGGAGGGAGAAAAAGGAAAGGCTTG  
GTGNATGTCAAAGATTTTTAA

Sequence 843

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGAT  
TAGGAAAAATAGGTAGACCCTGAGTGAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTG  
AAAGTAGAAAAGAACCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCTAAGACAGG  
TGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGAAGGAGAAGGGACCAAGAA  
GGCAGATACATTGCCCTGATAAAGAAGTCATTTTCTCTCACCTTTACATAAAATATCAN  
GCCACTAAAAATCTAGGAGCACAAATAATGAAAG

Sequence 844

GAGCGGCCGCCCCGGCAGGTACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATG  
TCAGGCTCTGTGCTATACCTTACATTATCCCATAATCTTCAAGACCCCTCAAGACCCACACA  
AAGTAACACAAAGCAGGAACTAACTCANATTTACTTGCCAAAGGTCACACAGTTAATAC  
ATGGTGGAATCAGGACTCAAAATCANGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCA  
CTTTACCAGGTAACCTTCATAATACCGGATTGGAAATCAAACCTGTCACTTTACTTTTCT  
ATGTCCCTGAGTGANTCACAACTTTTCTTCANCCAGCTTTTTTTCATT

Sequence 845

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCT  
TGGACCAATCACTGTGGCCAAATACATGAGGTATCCTTATTGGCTCCTTCTACTAGCAAC  
AGATGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGCAGATTGA  
ATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAACAAATCAAAGCTGATCCC  
TTTTTCAAATTTTTAATGTGACTCTTAGGGGATGGTGGATCCAGGAGAGAAGATTAGT  
GCCCACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCT  
GAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTCAGCCAAGACCACCTAGTGATA  
TATAAGGGATATGTT

Sequence 846

CCCTTCGAGCGGCACGCCCGGGCAGGTACTTTATTTATTTATTTATTTATTTATTTGTTTT  
ACTATTTACAAAACAAAATGTAGCTTTCTTAAATTTGTAGTTAAATGTTTTCTTTGT  
TTTCCCAATAAAATGTAAAGTTAATATGTGATGGCTAACTCCTAGGGGGATAAGGAGG  
CGCTAGGAGAATAGGCAGGTTGGAAAAGGGTAGTCGGGACTTGTCCAGATTCTTGTGTGG  
TAGTCTGGGTAGTCTGTATTTACCATATGGGCTACAAGACACACACACACACACACAC  
ACACACTCACACACACACACACACACACACACACCTTGTGAGCATTATTAATTTCGCAG  
TTGATGGTGCATAGTTTGGGGAGTGGGTAAAGGATATGTTACTTTTGTA

Sequence 847

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGT  
GTGTTTTAAGTTTANCTTTTGTGTTTTGTTTTGTTTGGTTGGCAGTAACCCNATTTTAATGA  
CTAAGCTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTNTATTGATCCCCACCTC  
CAAAATCTCATCAACAACCGACTAATCACCACCCAACAATGACTAATCAAACCTA

Sequence 848

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTAC  
AGTGCTGAAAATCTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTT  
CAATCTAATTGTTTTCTCAATCTTTGTAAACAGTTTTAAGAGTCACCAGAAATCTGTAG  
TTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGACCAATATGCTGGACCAATT  
CGGTAAAATACACCATAAATTATGACTGCTTTATCTGAATGCATGGGACACTTGCTACGA  
TGGCGGGAATTATTACCAGGAGTTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACAT  
TGGTGATCAATTCAAATCTCTTCTTGCANCCAGGTTTGGTCAGTCTGGCCAGGAGT  
GCAGATTATGACAAAAACAAAGCTAAAAGACCTGAGCCATTAAGGTTACAGTCTCAATA  
CCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATTGGAAT

Sequence 849

Table I

CCCTTAGCGTGGTCGCGGCCGAGGTGCGCCGAGGTACAAAAGTTCTGAAATAACACTATA  
GGCTTAAGGAATAAGGGACCAGAAAGTAGCCTGGTAGCCAGTGATTTCTGGCTTTATACA  
TTCCTTAGGAAAAAAACCTTTATAGATGTATTTAAGTAGAATTAAGGTTTACACAAATG  
ATTTTTTGAAGAGAGAGAGTCCCTAGGACCTAAACATTTCGTCTACGGAGATAGGGTCAAC  
ACGCAGATATTTATTTAGCAGCATGGTCTGCAGAAAGTAGGAGGAGGTGACCAGATGTGAT  
GGATTATGCCTGTAATTCCAC

Sequence 850

CCCTTAGCGTGGTCGCGGCCGAGGTNCCACCTAACAAATTGGAGGAAATGAAAAGACGAA  
TCAACAACATTTTGGAGAAAAAATTTATTCTACTTCTAGAATTTTCACTACTACAAGTGCT  
TAGTTCTTGGTTTGGTANATGAAGTGAAATCAAAATTGGATATTTGGAACATTAAATATG  
GGAGCAGAGAATCTGTGGAATTATTGCTGGANGACTGGCATAAATTTATTGAAGAAAAAG  
AATTCCTAGCTCGACTTGATACTTCTTTTCAAAAAATGTGGAGAAATTTATAANAATTTGG  
CTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGT  
ATAGAAAAATATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGACNANGGAAGGGAGAA  
ATTAAA

Sequence 851

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTATATTCTATGCAAAATTTATAAAATAATC  
CTTGAACATGAAAACTCATCTTAAAAATTACACGAATTAAGTAAGCATGCAATACAGACAC  
TTGCAGGATGCCTGGCCTCTGGGAAGTCTCCTGTCTCTGTGTGAATGTAGAAGTGAGGC  
TCAAACCTCTCTTAGGAAAAATTTCCCTTCCCACTGCCATCCATTTCTGCTGACTCAA  
CAATTCCCACAGAGGAAATGGGAATAGTATCATCAACTAGCAGTCCCTCCCATGCCAACAG  
ATTTGGGGTCCCTTATCTAAGTGTTTCTGCAGCCCGGTCTTCCCTTCTGACTTCCCGTAT  
TGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAA  
GTTTAATCTTCAACTGTGTTTTGTGAAAGGAAATATTCCCTAAAAGCTTTGGTGTCACT  
TAAAAAAAACAACATATATGATTGAAAGAAATTTGAGATATTTTGTTC

Sequence 852

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGG  
ATGGGATGTGCTTGCTTCATGTCCCTCCCTCTGCCTGCTCAACCCTACACAGTCCCTGT  
CTGGTGACCGTGCCAAAGTCTTCTGCTTGCAGAGAGGCCNTTCTCGTCCGAACATGG  
GCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTGGAAGGTTCTGCATCAGT  
GTGGCATTGTTGCGATAGCCCTCAGTTGATGCTTGTGTTGTGGTGTGGGAGGCAGGAACT  
ACTTAGGAGGGTGGAGGGGTGAGAATGAAAAGAGGACTTGCCCTGAGCCACCCAGCTGT  
GGTCACCTGATGGC

Sequence 853

GGNCGGGCCGAGGTACGCACATACATACACTAACGCTCAGCATAAACTTTCCATTACA  
CTTAGACATGACTTGTGGAGGAAAAACAAGGATAAAACAAGAGTCTCAAGAACTTAAGAA  
AAACATCAGAGTTGATTATTTAGCACTTTCTCAGGATTCTAAGGCAATANGCCTAANTTC  
AAAACGTGAAATTTGTTCTCTATTTCCATTAGTCATTAAATGAGATAAATGACAAGCTAT  
TGCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCAAGTGNGTTCTCTAA  
CAGTTCTAAAAACAGNTTG

Sequence 854

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATG  
AGCTTAGAGTCAGATTTCTAGGTTAGATCCAAGCATNACTACTTATTTTCTTTAAGAA  
CTTGGGCATCTGTAAACCAGGGATAATATCTTCTCAAAGGGCTGNTGNGAAGATTCAAC  
AAGGTAATACATAT

Sequence 855

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACCCACCACCATGCCCGGCTCATTT  
TTGTATTTTTAGTAGAGACAGGGTTTCAACATGTTGGCCAGGCTAGTCTCAAACCTCTGA  
CCTCAAGTGATCCACCTGCCTTGGCCTTCAAAGTGCTGGGATTATAGGTATGAGCCACC  
GCACCCAGCCTTCAATTTTTTTTTAATTCTGATAGAGCACCATCTACTACATGCTTAATA  
TTATCCATAAACAGACATGTCTGAGCACAGAAGATCATGTTAATGAAAGATTATTGAAAG  
GTACCTGCCCGGGCGGCCGCTCGAAAG

Sequence 856

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAAGCATAATGAATACAACAAGTAGCA  
TCAAACCTCAGTGTATATAAGAAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAA

Table 1

CTATTAAGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTA  
CGCTTTACATAAGAGGCCCTATTACCCACTAATTCCTTAAAATTTCTACCTACTTAAAATT  
TCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTT  
GCTGGTTCATGCCTGGCCATACAT

Sequence 857

CCCTTGAGCGGCCGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGTTTAAAATAAA  
TGTTTGTTTTTTCTAGCCCTGTAGGTCAATGAATGCCTGACTCCAGTGACAGACCATAA  
TTATCCAAATCTCTCATTTATGAATATGGAATATAAATATGCTAAATTGATTATGTCATG  
AATAGACTTCTTTTTTGATAACAATGTTTGGAGTTTCTCACCTTTCTCCTNNCCTTNTT  
TTTCT

Sequence 858

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAG  
ATTGGATTATACACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCA  
ACAAACATGGACTTGTTACAACATCCAGAGTGAAATCTGAATGTGGTCAAGAAAGTTCA  
GAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCCAGTGCAAAAGTCAGGCCC  
CAGCCCTTCCCATATAAGGGACTTGGTCATTTGAAAAATCAAAACCCAAAAGGAACAAC  
ATAGGGACCTGTAATCAATTAGAATATTC

Sequence 859

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGCTGGACTTGAGGTGGTTTAAGTTGGCAG  
CTACATCGAAGGACTTCTGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATT  
CAGCTGGCCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGAATG  
GCGTCTTTCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTTGGCTACAGAATTG  
ACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTGGGTAATATCCTTATCTTGTGAT  
CTAGTTAGGGTCAAGTAA

Sequence 860

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAA  
AAGCTGAGATGCTATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGT  
AAATATAGATGAACAATGAAGCATAAACAATTTAATATCTTACAGGCTAAAATATTT  
AGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGTAAAAAGAATCAAGAGCA  
TTCTAAGGTCCTTATATTACCTGGAAGGAGAGTAAAGATAATGACTATCTTCAGGCTGAT  
AAATTAACAATGTATGCTGCCATTTT

Sequence 861

CCCTTTGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTAATT  
ATCGTTTTTCACTTGGAGGGGCCAGTTCTCTATATTTCAATCTATTTTCTATATCAGAAA  
TGAGCAGGCATTTTAAAAAATGGCTTTCATTGATGGAGAGGTAAAAGTGAAATGGCTTTG  
TTGTATTTATATTATAAAAGGCCATTTCCCAAACTAGAAATTTATTACTAAAAATCAAGT  
TTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTATAGGTGGGGTTTTT  
ATATTTTCAATGTGATTACTCAC

Sequence 862

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCATGCTGGGTCTACCTGAGTGCCAGT  
GGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACA  
ATGCCCTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTTCGGTTCTG  
GTTTCTGTGGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 863

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACACCTCACCACTGGGTGTCTCTCAGACG  
TTACCAAGAGACAGAGTAAACCCATGCTTTCTCCTATCCAAACCAGTCTCTCCTGTTCCC  
TGCTTTGTCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGATAAT  
TTCCCCTGAAAATGTGCCTATTAATAAATAAGGATATGATGGGAGGCAGACATAAACA  
TTCTGGTCAATTTATTGGTGTTATTATTTATTTAGTTAATAAACTGCCCTTTCGCTATG  
CTTCACTTTCCACGTGTTTAGGCAG

Sequence 864

CCCTTTGAGCGGCCGCCCGGGCAGGTACATGCTCTAAATGTAAGGATTCATTTATGAG  
AGAGTGAACATACTGCTTGTAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATT  
GGTCCCTATGTGAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTATCTTT  
TGNTGATAGCACTAGGAAGACTTNTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT  
TTAAAGTCCCTATAATTTTAAGTAATTTTACAGCTGACAAAGATAAATATTTTTTCTTT

Table.1.

TAGTTTTCTAATGTCTTGGAGGTAAAGTGGAATGGCCTGTTTTGACACATAATTTCTA  
GAAC TTGGAGTTAATTTTGATCAGTTCCATTTTGGGT  
Sequence 865  
CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTACTGGGTATTAATGCGTTCATAGTAG  
GGTATTAATCAGCAAGGTCCCATCCCAGAAAAATGTGCAGTTTGTCCAATGGGAAAGA  
TGCANAGACAGTTTCAGTTAATACTAAGTGCTAAAGATTGGGATGTGCACAAGAAGCT  
GGAGGTAAAAATCTGGAAACTGAACGTGAAGTCACCACTAGGCAAGCTGCCTGTAATT  
GAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAAGGATTAGTTATCTAGTTTC  
CTCCTTTTCTTTTTTGGAAATTTGGTCTTTTAAGGTCTTGATAATCTTTCTAGCTAGAGC  
ATGTGAACAGAACANAAGGAAATCAGGACTCAGTTTACTTAATTTAAAGCAAGCCATTG  
GTTGCTGCAGTTCAGGGGAGGTAAAGTTGCTGGGCTCCACTCTCTATTAGCATGGATG  
CTTAAGAACTTCAGGG  
Sequence 866  
TAGATATAGGATAGTGATACNTTGAANAGGACTATGAAAAGGGACAGTAGGGCTTAGTG  
AAAAAGTTTTAACGANNTCTACNGTTATTGAATNAAANTACATATAGCGNGATTCTTATT  
ACTTGAAATTAGGAGGAGAAAGAAATTTTTGAGGTAAATTNGAAAAGACATAAAATAGAC  
TA  
Sequence 867  
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCCGGGCATGCAGCCAGGCTAGACCGGCTC  
A  
GCCCCACTTCAAGACAAAATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAG  
CTGCATCATGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATTA  
CTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAATATTTTAAAGTGACA  
AATCTTTGTAGAAATTTTGAAGATAGAAATATTTGAAGTAGAAAGTTAAATCACCCA  
CAATCTGCTTTTGTTAACATTTGAATATGTTGTCTTCCATGATATATAACAAAATTTGT  
CTGGGTATTGCATATGTCGCCTTTCTTCTTAATATTGCATTTGAGCATTTAACCNGAA  
CACTAAATATTCTCCCTAGAACATATGGATTTTGAATAATTTAGCTAATTATAAAAAATA  
CTTCCCTAATGGTCCTTTGGGCTCTTTTAAGGTTTGTGCTGATATGTTCAAGGGGATGAA  
CCACTTAAGGCTCTTGACCACCATACTGNCCATACTGCCATACTGGCATACTGNTTTT  
AAAAAAA  
Sequence 868  
CCAGTGTGGATATCTGCANTTTTCGCCCTTTGAGCGGTTNTTNGGGCAGNTTNTT  
CNNCCTTTCTGTGNTATTTGTGGCGGNATGTTGNATACTCTCTACCATGGGGATGAAGAC  
ACAAGAATTATGATAGTTCATTGAAAAAGGTTGAGAATTCAGAACTTGTCAGTTTCCACC  
AATAATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGAATGAAG  
AATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGGTTTAT  
Sequence 869  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTAATTAAGCATACTAAAGAAAAAAGGAATG  
TTTTCTTAGCAATTTAAGAAC TTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGT  
GACAAAAATTAGCCACAAGATGAAATTCAGTTAAATTCCAAACACTGTGGAGATGGAAA  
GCCTTGATTTTAGATGAAAGGATTTATGGCTGGAATTAAGAAATTAAGGAGCAGAAA  
AGTGGGTGAATGGAAACATTTACTTTTTGTTTTAAGTGTTAATAGCCACTTTTGTCC  
AGTCTGNATCTCTTTCATTAGTCTTTATATATATATACNCACACACCCCNACGTAT  
GTTATATATACATATAATGGTTTATGTTATATATATGNGGATATATACACCTTATATGGT  
TATATATATGGGTTTTTTTCNNGAGCN TTATATCATGGTGAAATGAGTTCAAATGGACCC  
TGGCCCGGGCNGGCCGNTCGAAAAGGGCNAATTCACCACACTGGCCGGGCGNTTACTA  
GTNGGATCCCAGCCTCGGGNNCCAANNCTGGGCGTAANCATNGGGNAATAGGTGTTTNC  
CTGGGNGGAAAATTGGTNTNCGGT TAAAAATTCNCCCAACATTCCANNCCGGGAAGCC  
CTTAAAGGGGGTAAAGCCCCCTNNGGGGGGGGCCCTTANTTGGGNGNGGGGNGCCCTT  
AACCTNCNCCNNNTTTTAAAAATTTTGCCNNNTTTTGCCCCGCCCTTTNANAAAAT  
TTGGGGCCCCCNCNTTTTTT  
Sequence 870  
CCCTTGGCCCGCCCGGGCAGGTACTAATATTCTTCAACAGAATGCAATAAAATACGAGCT  
ACATAAATCCAACTTGGTTCAAAGGTAGCTATGTTTTTTTAAAAAGGTATTATAACA  
GACAAAGCAAATGCAAATTCCTTCCAAACCTGATAATTGGTAATACCAATAACTG  
GTATCTAATAAATATACAAATCAAGAGAATACCTTGCTAGCTAAATTAACAAAAA

Table I

AAAACT

Sequence 871

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTT  
TAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGA  
TATTTATACTTATGCCTACTTTTAACCTTTTAGGAAAACCTTATGAATTGGAATATTCTA  
AAATCCTGAAATAATTTGGAATATTCTAAATTTCTGAAGAGAATATGAACGGATTGTTGG  
AATGGAACTTTTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCATATTTAAGTT  
TCTGGTTATTTCATGGNTGCACTCACTTTAGAGGATGTGTTCTATTAGGGTTGCTGCTAC  
TATTTGTCTCTCCTAAATAACCAGTATGGAATTATAGAAAGAAAGGTGGGGAGAATAGTC  
CGTGTGATCTNCTGGGCAGCATTAAAGCCTGTTCCATCCAGCCCCTGACTATTTTGGTCT  
TTCTTTGCCTTTGAAGGCCCAGAAGACATTTNCATTCTTCGAAGNTTTTATGGTCTATA  
CCCCTCTCTTGCCTNCATATNTTTTGCAAGNNGGGGGCCAGAATTTTTTGGATTCCCNT  
TAAAAATGGACCTTGGGGTNTTTTANCCATAANCCTGTGAAAATCCAANGGGGGGGGGG  
CCCCTTNTNCCCCCCCCGGGGGGCCCCGGGGGNNCCCNCTTTTTTTGNAAAAAAAANN  
GGGGGGNCCCCAAAAAAA

Sequence 872

CCCTTTGAGNNGCCGCCCCGGGCAGGTACAGTTCTGTGTTTTCAATTGATACATACTAC  
TTATGTAAGAAAAATGAGTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGC  
ACAGAGAAGGAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATCTAC  
AGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAAAAACATGGCAGG  
AAAAAAAACCATTTTGAAGCCAAGCTTTTGATTTAACCATGAATGAAAACAAATGGGAAA  
ACAACAACNACNAAAAACAAACAAAAACAAAAACAAGAATGACCAAATACAGAAATTAT  
TA

Sequence 873

CCCTTAGCGTGGTCGCGNCTGAGGTACTTGTTAAAATTCAGATTCCTGGACCCACCCTAG  
ACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACATCTTCATTATAACAAGCTTCC  
ACATAGATTATTTTGTCAAGTGGCCATGTCTTGCTTCTGTGGAAGTACTCTCCAT  
CTTCTGGAGTGGAATGTCCCCATTGCTATCCACATGGTCCCTCGCCTCCCTGATACTGTA  
GTCTCAGATGGCACCTNCTGAACTGGGCCCCGAGCTCAATCACTTCCAGACCCTGCCCA  
CCTCGCTNGGAGCNTCAGTGGTCCCATGGTGGGCAAAGGAACCCAGGTTTNG

Sequence 874

GATATCTGCAGAATTCGCCCTTTNCGTGGTGCNNTTTCGAGGTACTGAGGATGACTAGAT  
GACAAATAATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTTTAA  
AGAGGTTAGTCTATTCTCTTATTTGAGAGATATGGAACTATCTAGGCCTAAAGACTGTA  
AATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACA  
ACCAACAGTTTAATTTAAGAAACATTTGACAAGCATCTCCTGTGGATAAGACCCTATGCA  
AGATGTCATGAATATAAATATGCACAGTAGTACCTGCCCCGGCGGNCCGCTCGAAAGGG

Sequence 875

CCCTTANCGTGGTCGNNTTTNAGAGTACTTTAAAAATAACAGAGTGTGATTTAAGAATAC  
TCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAGTCAGGACTTAGATAG  
AAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAAATGACAGCTTCAG  
AATAAGCAGTAAGGGGAATAAAGAAAACAAAGTTGTGTGTGTGTCATGTATTACATGATA  
AATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTC  
TGTGTCCAAAACCTAAGTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTCCCTCC  
CACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGGCA  
CAGGGCC

Sequence 876

CCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGTTCCGAGGTACT  
TGNTAAAAATCAGATTCTCTGGACCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACA  
TGGCCTGGACATCTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGT  
CTTGCTTTGCTTCTGTGGAAGTACTCTCCATCTTCTGGAGTGGAATGTCCCCCATTTGCT  
ATCCACATGGTCCCTCGCCTCCCTGATACTGTAGTCTCAGATGGCACCTCCTGAACTGGGC  
CGAGCTCAATCACTTTCCAGACCCTGCCACCTCGCTGGAGCTCAANGGGTCCCATGGT  
GGGCAAAGGAGCCAAGTTTGGGCAACAAATCCCTATGCATTTAGAAGTAGATGGGGCTGC  
ATTACAACACACAAGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATC

Table -I-

ACAGCAAGAGGGGCAGATGAAGCNGACTCAAGAGAAAACAGATNAGACCAGAGAGACCCTGG  
TTCTTGGTTTGTCTGAAGNCATGGNCCATCTNCTATTCTAGAATTANAGAGTTCCTGGA  
AAATTCCTTACCANAAAAAATTTCCCTTTTGGNTTNGACGCTTAATTGAGGNTAATTTCTAT  
TNTGGGCAATNTCAAAGNNATTCAANGAAAAAAGGG

Sequence 877

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTAATTTTTTTTTTTTTTAATA  
GAGATGGGGTCTTACTATGTTTCCCAGGCTGGCTCGAACTCCTGAGCTCAAGTGATCCTC  
TCACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCANACCACTGTGCCCTTACTTCTA  
TTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAGAGAAATTAAGTAGTAAGT  
GTCCAAGTTTACCCACAACCACTAAGTGGTAAAGCTGGGGTTTGAAGTTCAGCAATGTGC  
TTAAATCTCAGTAAGTAAAATCACTATGGAGGACCTTAGGT

Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATTCCTTAAATATTTATGC  
TCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTTCTTCTTTACGCCAAT  
TTCTTAACTCCCAGAGTTTTTTCTGTATGATCTAGTCATCTGTAGCACTTCTCACAAA  
TTAAGCTCTCTTATGCCCCAACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAG  
TGAAAGATATTTCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTA  
GGCTGAGAAATGATTCTCACTTAAAAGCCCCTGGGTTTTAAACCTCTCTTAGAAAAACAT  
TAGT

Sequence 879

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCA  
GGGTTACAGGATGAGGGCACTTTGCCATTCTTTGTGATTTGGTCAACAAATGACACAG  
GTTATTTACAATCTTGACCTTTTGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAG  
GAGGTAGAAAACAAGTGCCACAGTAGA

Sequence 880

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAAATCCTGACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA  
TGAGCCCATCTAAAAAGGCAAACTACTGTATGATTTCACTTAAGTGATATCCAGAGTAA  
ACAAATTCATAAAAACAGAAAGTANAATAGAGGTTTCCAGGGACTGGGAGTACTTGATA  
TAGAGTTTCAATTTTGAAGATAAAAAAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTGTTAGGT  
GTTCTTACCACAATTTAAAAAAGAAATTTAATTAAGGAATTAATAAATTTACAAAAT  
ACTATTCATCATTGNGTTTCCAGTTTATATTCAACCACAGCAGTATTTAGGTATAGTAA  
TTAACTTACTTTCA

Sequence 881

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCACTGCACTCCACCTGGGTGACAGATCAAG  
ACCCTGCCATAAGAAAAAATTTAAAAAATAAAAAATTAAGAATTTCTATGCCCTTTA  
CCAGGCCAGCTTAATCAGACTTCTTAGGCCCTAGGACAGGCTTAAGATCAGTTAATTTAA  
AACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTTCTGCTTGTTGTTTCAAT  
CTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACACGTATTTGGTTTGGTTATCTGAAGT  
TTAATTGCATTCATTGTGTTTATAGTATTTATCCCTGTAGTGTGGAATTACCAGTCACT  
TACATTCATATTTNAGTTTTTGCCT

Sequence 882

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTCTTGAATATTTCCAGGGCACAAGATA  
TTCTTATACAGAAACCTCAGAATGGAAAATAGCTAAGACATAAGCAGTGTTTCACAGAAC  
CATCCATCAGTCTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCATTAT  
TCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAAATTTACCATTACTAAGACA  
GGGTGATAGTAAGCATAGAATTTGGGATGTCTTTTTTCTTGCCCTAAACCTTCAGA  
GTTCTGCCAGGTGATTCAAATGTTAAGATCCATAATCTCGCCTGTGTGCTCAAGCGAA  
CACTAACACTTTAAAAAGTGGAATGAAAAATCTGAAGTGGTTGAATTAGACACAGTAT  
TTGGCCCCATCTTCAATTTAG

Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTACTCAAAAAATTTAAATAGCCATCTAAAAACATCTCA  
GGTAAAAAATCTGTCCCCTGCATTTGAAACCAAAATTAATTTTTCTCACTAAAAACACATT  
TTATTTAATAGTGAGGTGAAATTACATTAGCCCTCTTACATTTATTTGATTCAAACCTT  
TTTTAAAAACCTAGATTCTTTTAAAAAATAAATTAAGAAAAATGACATCATTCATCA

Table 1

GATAGCCAGCTACATGTGTAGTTTGATCATTAGTTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACCTCGGCCCCGACCACGCTAAGGG

Sequence 884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTA  
GAGAGCATANGAGCTATACTAAGATATAGAGTCCTGCACAAATCCACAAAATAACATGAA  
TACAAAGTGTCTAAAAGTCATGCCAAATAAAACAGANCATATAACTGGGCAGAGGGATG  
GAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTCTTATGGGATATGAACCTTGAGA  
TGTTGAAGTAGAACTGAGACATTTCTGGAAAACCTANATGTATNAACAGAAGCANGAGGAA  
TAGGAGATGGTTTGGAAAACATCAAGCAGCTCAGTTTCTTGGGGTGGTCCAGGAGAAAGA  
AGCTCAAACAACATTCAGTGATAACACTTAAAANNATCAAAAATTT

Sequence 885

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAAAACAAGACAGTGCCTGCTTGTGACCAGGG  
GCTGGGCCTCTTCATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTA  
CACATTCACATTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTTAATTGGTTTGT  
TTACTTCAAAGTCCCACTCATCAGAGGCAGNTGTTTCGCTTATATTTGGCTCACTACTT  
TNTCTGCTTGGTTTAGTAACACTAATGTTTACTAACATTAATAATGAAACCAAGTTTTCGAG  
CTAGCATCTATTGACCAAATATAATTATTTTCAAACCTGTATATCCAAAATTTAAAC  
ATATTCAATGCTTATTGAACATCTAAACATATANCCTTAATGAATAANGGGAAAATATAA  
CCATCTGGTCTTTGGATCTGAAAGCCACAACCCACCTGCTAGANTANTTTGGGGAAAGGC  
TTTTTANTTCCAAGTTCAAAGGNTGAATTCCTCCGAGGGNNGNNGGGGNCCTTCCCTTCT  
NAACCAGCAANAAAACCTNGCNCAGTTTGGGATTTTGGGNGGAAATAAACCCNAATGA  
NGCATTTTACTTTCTTTTTT

Sequence 886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGCTCGGCAAAGGGGGACTGGATTAATAA  
ATTCTGGTAATATAGTAAGGACAAAATAAATGTAAAAAGATAGAAGTAAATGGAGAACA  
TCAACATGAACGCGTGCTCCTTTGAGTAGAAAGTAATTTTCTGCTTTGTCACTCAAATA  
GCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTCTAAAACCTTCTGGGCCTC  
AGATTTGGATGCTAATATGATTTTCCACTTAGTGGATAAGAGCTCCCTGGAGAAGGGCTC  
ATTCTTGGATGGACAACAGAATTAGAGCCTGAGTTCTAAGAGCTTAATAAAACAAAAG

Sequence 887

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCGATGAAAGTTTAAATCTAATCAACAGTATT  
ATGCACTGGTTGAAGAAAACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAANAA  
GGGAAAAGTCCGNTAACTATATGTGTTTCATNAGATTCTAAAGCTGTTAAGGGAGAAAGAC  
CCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATGNTCTGTTATAGAAAAG  
TGGGCTTTTAANTTTTGTAAAG

Sequence 888

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTAAACCGTCTTTTAAAAAATTATTATTAGT  
TTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCAGGTTTGTCTTCTNAAT

Sequence 889

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACAGGCCAGATATATTCTCTCATTAACCTA  
TTGCCTAGCAGAGAAGACCAACATTTTTAAAGTTTATACATATAGTTAATTTCTATTAT  
GATTATATGATACAAATGGAAAGTGCTATGAAATGTGGAACAAAAGAGAATAATCTGTC  
TGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTAAAGGTTGAACAAGGAATT  
GGAAAACAGCTGGCATGTGCAAAAGACTTGAANACTGAAGGAGTTAGCCTTTAAAAAAAT  
GAAGAAAGTTCTATTTGGCCAGAGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAA  
GACCTGAGGCCTTTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAACTTGANAAGT  
GACAAAGATCAGATTTGCAATTGCCTTTCAAGGTGGTAGGTTACAAGGGAGTTGGGTCTC  
TTGACCCTTTGCAAATTATACCCCATTTCTTAACCTAAGAAATGGG

Sequence 890

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA  
GTCTATTGTAACCAGGGCCACTCACATTGATTCGGACTAGGGGGCATCATCTGCTGTAA  
AGAGGGTGATGACTCGCTAAAAATGAGGG

Table 1

## S quence 891

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCACTTCATGGCTAAGCATGTGCGGGATGGAA  
CCGGTCTTCCTGGGCTTACATCTTTGCTTTGCCTCTTCTTTCTGTGATGAGTCTTGGGG  
TAGGCCTCAAAGGCTGAATCTTCAATATAAATACAACAGTGAATGAACAACAAATGGTTA  
TTTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCAGGTTGCTCACCTGT  
TGACTGGAACAAACAATAGTCCCTTCTTCATGCGGGCATGGTGAGGGTTTTAACCCCGCA  
TTGTCCACAAAGACCGCTTAAATTATAGTAGATGCTCAGCAAATCTGAGCTATTATTTT  
ATCAGGACTGTCAGAGGTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCC  
AGCAGGGCCACTTACTGTTGGAGCCGGGGCAAAGTCAGTTATTCTCCCTGAGGGTCAGTT  
TTCTCATCCCTAAAAATTCC

## Sequence 892

CCCTTCGAGCGGCCGCCCGGGCAGGTACTACAGAACAGGAACAATCTGCCATGTGTGTTT  
ACAACCTCAGAAAGCCCTGGAATGACAGTTGCCAGGGCAGTTCTTTGAATTTGCAGGTCA  
GAATTAGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTACAAGA  
TGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTCTTCCAACATCAGGGA  
ACATCAGGGAAATCAGCTAGTATATGCTCTTTTTGAGGATTTTCACTCCAAATCCTGAA  
AGCATTTCATGAACTACATAAATTACTTTTTGTTAAGCAAATCATCATAAGTAAATCCAGT  
CATATGAATCTGGAAGGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAAGTGTG  
GGCAAGTTTACCATCCATCACGGATTTTGTGCTTGGTGAATTTAGGGAGTGAAAGAGAG  
AAGGATGTTTGGCCAGTTGCTTTTTTACCTATATCTGAAATCTTACTTAGTCAAAGA  
ACAAAACATTTAGACATTTTATTTCTTTTGGGGGTTTTAAGTGATACATGTTTAAAAAT  
TGATATTTTAGAAGAAAATTGTTTTATTATATATAATTTATTTAAATTCNGGNGGAGA  
AGACCAAATTTATCCTGAGNAAAANATTTAAATTTGAAGNTTAGGTTGGCTTTTTTAAN  
ACCCNCCGGCCNAACCCCAAC

## Sequence 893

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTAGCATTAAAAAAGTCCTACAAATTATTAGA  
GAGAAAATACAGGTTGCACGCAAAGCATAAAGAATGAGAATGGCATAAGACATCTTAACA  
GTGCCACAGAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAACCG  
TTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGATATTAAGATTACT  
GAGTCAATTGATATTCAACAGGGGTGCAAATGGAGAAAAAGTCTTTTCAACAAATAGTGG  
TGGGACAAATGGATAGCCACATGCAAAAGAACATATATATAAGAGCTAAAACCATATGC  
TTTTAGAAGAAAATATAGGGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGA  
CATGACACCAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATG

## Sequence 894

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCACAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTCGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 895

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCACAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAGGGAGTGTCGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 896

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGAGCTGCCTCAGCACTCTTTTGCCATTCTGT  
CTAGAAACAGCCAAAGCCAGACAACCAAAATTACAGATGCTTAAATGTTAATGCCAGACAC  
CAAGGCTCCGTGAACTTCCCTGTTGAACATCTGACCCCGACTACTTGAGGACATGAAACC  
TAAGTGTGCAGCTAATTACACCTTCCAAGGGCAATGACATCGGGTCTATGATTTTATTC  
AGGAAAGCAATAAGGCAATCGGGGTCACTGTGAACATCATTTGAAGGGAAGTAACCTCTT  
AGCTTTATTCCACAAATGGTCTAT

## Sequence 897

CCCTTAGCGTGGTCGCGGCCGAGGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAAC

Table 1

AGATCTACATTACTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGA  
ACGATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGACAAAACGGA  
GAGATAACTTACAACCTAGGTGATATCTGAAGTTAAATTTTCTGGTTATCTATTTCAAAA  
ATTCACAACCTATTCTGCACTAAAATGTTTCACTGGGTCAGGCACAGTGGCTCATGCCTGT  
AATCCCAACACGTTGGCAACCTGAGGCAAGAGG  
Sequence 898  
CCCCTTCGAGCGGCCGCGCCGGGCAGGGTACCNCGGGGTNGGACTCTNTGGTTTTTNAAA  
ACCTTATGAACCATTAACCTGGGAACCCCGGCAAAANTAAGCCTNGGGGGGCTTGAGGGG  
ACTTTTANGANNNAACCNNTTAAACATTTGGTNTNNTTNAAAAAAAAAATTNCAGGGTTN  
CCGTNCCTTTTCCAAAGGGGGGAAAAANGCNCNAACNTTTTTTTTTTTTTTTTTC  
Sequence 899  
CCCCTTCGAGCGGCCGCGCCGGGCAGGTACTGACAGATGCCTGGGTAACCATGTCCAATGT  
TCAATTTACTTTTCTGCTGGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTG  
TCCGCTGGTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGGTTG  
AGAGTTGAAAGTAAATAAAGGATAATAATCTTTGTCTTATTTTCTTTGTTTTAATGTTT  
CCCAACTTACGTTAGGACAATGTCAACAAAGACAGATGTCCTAATAGTAATTGCAGGAC  
ATGTGTTTTCTCATTCTATC  
Sequence 900  
CCCCTTCGAGCGGCCGCGCCGGGCAGGTAGATTGGAGGGGGCCATATGAGGAGCTGTGATG  
TGATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGATATCAAGTGGGGGACATGTG  
TTTGCCCTGGGGCTCTATTGGCCTGGAATTTGTGGTAGGAGGAAGGCACAAAAAGTAGA  
CTGGGATTACAGGCGTGTGCCACCGCGCCCGGCCTAAAGTGTGTTTTATAATAAACCTC  
AATCTGAAACATTTTAAATAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTTAT  
GTTTATATGAATAAAAAAGAAAAAGACGAG  
Sequence 901  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACTTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGGAATAGCTGCTTTGGACGGCAAAC  
CAAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAGTCTTGGAAGGAAGCA  
ATTGAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTT  
CAGGAACCTTGCAACCCGTATAACTTGTGCCTGCCTGTCTGTAGGCCTTTAATGATGTTTT  
ATTGAATTTTGG  
Sequence 902  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATACAAGGCAAAATGAACTCTAAGTAAAA  
AAGAAAATCACACTTCTAAACACAAATTAACCATTTCAGTATTTAATTGCTCCTAAAAGG  
TGATTCTACTTCATTAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAGAAAC  
AGGATAAACTTTAGCATATAAACAGTCTTGATTACAATTTACACTTTCAACCATCTTA  
TTTATACCTCTACATTAGATAATCTTTAAATTTCCATCATAAGGTTTTCCCATGGTTAAC  
CTNCCATATAAAATTTTGGTAATCCTGCC  
Sequence 903  
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGT  
CTGGGTGGTCTCAGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAAA  
CTAGCTGAATAAACTCATCCACTCCGATTTCAATTCAGGTATCTCATGAGAACTAGAGG  
ACAAAAACAATTTCCAAAATTAACAAAACAAAGTTTACTCTAGCCATCAGTGCCCAATGAAC  
ATAAATGACTGCCTGAGAGTTATATTAACAAAATAATTAATTCAGACGAATTAAGGAATT  
AAACCAGCTATGGGAAATATACACTCTATACTTAGATGCACATT  
Sequence 904  
CCCCTTCGAGCGGCCGCGCCGGGCAGGNACTTAAATAAAATAAAATTAACAAATCATTT  
TAGAGATAAAGAGTGAAGTTACTAGAAAAAGTGACTAGGACTCTGTTTATGAAGAAAGG  
TTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAATTG  
TAATTCAGAAATGGCTTTTATGTATCTAAACAATCTGGGCTGCTATAAAATTCAGTCAA  
CTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTACCGTG  
CAGGACCAGAGGGCTCATCTC  
Sequence 905  
CCCCTTCGAGCGGCCGCGCCGGGCAGGTAATTAATAAAATAAAATTAACAAATCATTT  
TTAGAGATAAAGAGTGAAGTTACTGGAAAAAGGTGACTAGGGACTCTGTTTATGAAGAAA  
GGTTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT

Table 1

TGTAATTCAGAATGGCTTTTTATGTATCTAAAACAATCTGGGGCTGCTATAAAAAATTCAG  
TCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTAC  
CGTGCAGGACCAGAGGGCTCATCTCTGCCGAGCTTAATACAGTTT

Sequence 906

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGA  
CTGATATCAGAGACTTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAACTTTA  
TGGGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCTAAAAGCAAA  
CTAGGTCAACTTTTTAACTGGCTAGTGAAAATGAGATTCTCAGGATACAAAAGCAAGGA  
GAAGACAGGAATAAATCAGGACTCCAACAGGCAGAACAGGATTTATTTAGGGCATGCAAT  
GTGGAGGGCCCTAATGGGAACATGACAGTGT

Sequence 907

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCA  
CTAAAGCCTCCAAACCTTGCTTGTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCT  
GTTGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCTTCGGGATA  
ATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTGGGACTCTCTTCTGTTT  
TGGTTTTTAGGAAAAAGCTAGAAAATCCAACCTCAGCTAGAGTAACAGTAGTAAGTAC  
TTGAAAGTATGTCAAAACAAAACCTGTAA

Sequence 908

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAAAC  
AAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAGAAGCTTGGTAAGGAAGCAA  
TTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTTT  
AGGAACTTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTAATGATGTTTTA  
TTGAATTTTGGT

Sequence 909

CCCTTCGAGCGGCCGCGCCCGGGCAGGTACCCTCTTCTCAATTTTGCTATGAACTTAAACCT  
GCTCTTAAAAAATATTTTTTTTAAAAAGGAGGNGTTATTATCAGAGATCCCATAGAC  
CTTAAAGGATAATGAAAGAATGCTATGGGATAACCTTCATGCTAAAACTTCAACAACCT  
AGAAGTATGAAATGAATGAACNTCTCCAAAAAATACAAGTTACCAAAATTGACATGA  
ATAATAACAGAAAATNTNGANTAACGCTCTAACTATTAAAGGAACGTGAAGTTGTCAAA  
AGCTTCCCCAAAATAAAATTCAGGACCAGATGG

Sequence 910

CCCTTTCGAGCGGCCGCGCCCGGGCAGGTACTCAATGGGGTAGGGTGTCTTGGGATCTGACT  
GTTTCTTAGACCTTCAATGCTTCTTGGCTTTCCTCACTGCTAGTTATAATTCAGTTTTCT  
CAGGTCTAAGTCATTCATCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTGCTA  
TTATCTCCTCTCCTGTTTTCCCTATTGGTGTGTTGTNTCTTTTCTTAAAAAATTC  
TTTGTGG

Sequence 911

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAA  
AAAGGTGTATATTAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATT  
GTCTATGTAATTTTCTTATGGTGAACACCCAAAGCAAGGCCTCACCTTAGGCTACCAGC  
TTGACTCTTAAGTGACAGAAAGAGCCAAAGGCTAAAAGGTTTGTGAGAAACCTCATGAG  
CACTGAGTGTCTAGTTCCAGATGAAAACCGGTTTCAGGTATGAAGCAAGAGGGAGTGCT  
AATTGGTAGAAGTAATTACATCTT

Sequence 912

CCCTTAGCGGCCGCGCCCGGGCAGGTACAACAGAGCACAAATGCTTAGATTTGGGTGGATTTG  
AATAAGATGAAAGATAAATTATGATTTTGTCAAGTGTTAAATAAACTAAGACACTTA  
AGGACCACAAAAATTTAGACCAAAGTATCTTGTAATCTACCTGGTGAAGTTTGATAT  
AGCACACATATGACTTTTCTATATTATTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGT  
TTGTATTTTCTTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTCTTACTATGAAACA  
TTTTTTTTTTTTCTTAACAGTTATCTT

Sequence 913

CCCTTTCGAGCGGCCGCGCTGGGCAGGTACCACAAAGTTATTGCCTACATCCAGGTCAAGA  
AGATCTTCTACTGTATTTTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAA  
ATTAAGAGTTGTGCAATCATTAACCTTAGCTTTAGACTGGTATACTAATTGGTTTGTATA  
CGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCACAGCAGGGCTCTG

Table 1

TAATTAGGCAATAATTACTTACCATCATACCTAGTGAGGCAATATGGGAGAAACAAAACA  
GGCCATACAGCTTCACTATTATTCCTACT  
Sequence 914  
NNCACCCCTAGCGTGGNCGCGGCCGAGGTACTTGAGGACCAAGCCACAGAGCAAGCGCTA  
AAAAAAAAGTTAACTAGAACCCTTACCACTNTTNCACGCACCCCAATTNCATAAAATGTAT  
CAGNAAAAAAAAACAATNATCTAAAGANAAAAAGNAAAGAAAAANNATNNANCACATAG  
GNAACNGGGTGTCAACTAGGNAACNGACCTATANNAANNAGGAAGANAGNGNCTNCCTT  
CCTCAATNNNCAGANNNACGGAGGGGAGGCTCAAAGGCCCGAGAGGCTCNCTACAAGGA  
GAAAG  
Sequence 915  
CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAATGGTAAATATATGAGTAAATATAACAC  
ACTTTTTCTTTTAAAAATTTATTTAAAAGGTAACACTTTGCAGCAAAATAATTAACAAT  
GTATTGTGGGTTATATAGTAGTAAGATGTTTGACATAAATTACATAAAATAATTGGAGCAG  
GGAAATAGAAAGTGTGTTGTTGAAATGGTTTGATATTATATATGAAGTGGTATATTATTAT  
TTCAAGGTAGCCTTGATAAGTTAAAGGTTACATATTGNAACCCTACAATAATCATTACA  
AAATAAAGAGATATAACAGNAAG  
Sequence 916  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCAT  
TCC.TTTGGTCTATAATTCAGTAAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGG  
CCCC.TTAAGCGACCCAGGGTAGCTTGTGATGGTTCAGATTATGATTTGTTCTAGAGCTTT  
TCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGNCCCC.TNCCCTTTAAACAAACAAAA  
GTGCCGGCTGGACGCANTGGCTCATGCTGGTAATCCANCNTTNTGAGAGGCTNAGGCAG  
GCGG  
Sequence 917  
CCCTTCGAGCGGCCGCGCCGAGGTACTGCCTGGCATGCATCTTCTCGATGGTCTGTT  
ATCTTGTTGGGAATGACATTTCGTTAAGTTGTTTTCTGTGTGCATCCACCCAAATAAAGAA  
TGTTTCATCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATCAAC  
GATGACTGCAGTGGGTGAGGCTGTTTGTTTATCACATCACTTGAGAACAGAGTAAAGTGA  
GTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAGACATCTGTTTCAAGGCTTTCTAA  
GCCATGGAGTATTCTAAATGAGC  
Sequence 918  
CCCTTAGCGTGGTCGCGGCCGAGGTACTACAATTATAAAGTTACCAATAACTTTACATTA  
AGAAAATCATTTTCTTCCCTTGAAAACAAAGTATGTCCTCACTTTCCCTGCTCTTTTAT  
TCATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATACTGAAACAG  
TGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTTGGGAACAGCTTTCAGCAGT  
GGTCACTTGCTTTTTTTAATGCATTTCAAATGTGTTTGGTTAGCAAAAAATAATGAGA  
TAATTCCTCAAATAAATG  
Sequence 919  
CCCTTAGCGTGGTCGCGGCCGAGGTACAACAATTTATCCATTCCCTTAGCAATAGTTGGA  
CACTTAGAATGTAAACTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGG  
GCCGTTGGAAGAGGAGGAAAGAGGGTGAGATGATACATTAATATAAATTACTGAAAGGT  
GGTGTTCACATTTAGAAATTTTTTTTTTAAGTTGCATGTTTAGGATTTTAGTGTCCAGGAG  
GAAAGAAGGCCAGTGTTGCCCTTCCAGACCATCGCTGCCATTCCCTGTAATATATCGTG  
TGTAAGGAACCTAATGCCTGCA  
Sequence 920  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCGCTATTTCTAGTTCAAAATCACAGATTTTCA  
GATTGAAAAATTTCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAAT  
CCATGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACCCACAATCC  
ACATCTCCTGACTCCCAATCCTTTCACTTAAAAACAAACAAGCAAAACAAACAAAAAGATT  
TCTAATAAAGTGGAATAATTNTAAGAAAGGCAAGTATCACTATTTTAC  
Sequence 921  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACATGTAACTTCTACTTTCCCTTCAGATT  
ACAGCAACCATCATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTCTCACTGATG  
ACCACTTGACCAACTATCATAAAGATCAAGGCCAGGGTTCTCAAACCTTCAACATTTGT  
GTGCTCATCTCCCTTCAACCAGAGACTCCCCAGGGCTGCTGGGCCACACTTTGGTTTGT  
TTGACTGGAACATAGTTTGAAAGGGATGGAAATTTCCAAAGGTGTTAATAGACACATAA

Table 1

AGATTTTTAAATATTAATAAAAAAGAAAAAGAAAGA

Sequence 922

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTG  
TCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCCATTCAA  
CAGATAATGAGAATTGGAGATGTAAAGAAGGCTGAGTTCTAGGAGTTGCAACAACCTTAG  
GAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACTAGAA  
GAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATGCC  
ACTGAAAAGTATGAAAGAGGAGGGAGACAGGAGG

Sequence 923

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCAC  
CTCAATTCTACTCTGGGGGACATTCCTCTCTTTTGGTCTGGAATGTCCCCTGGCTT  
CAGGGACAGCTCAACATGGGCCTGGACAGTCAAATTCATCCCCAAGCTTGGGACTCAGG  
GAGACCATCCAGTGACTTGTTCCTGAAGTGCTGGGAAGGCAGAGCNCCTTTCTGCGGGG  
TGCTGAGTGATGGGACGACAGNGTGGAGCTACTGNGCTCTCCAAGCCGGNGCCAGGACC  
AGCCTGCCTGAGAACGAAGCCAGC

Sequence 924

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTTGCCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCCCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA  
GCCTATTGTAACCAGGGGCCACTCACATTGAT

Sequence 925

CCCTTAGCGTGGTCGCGGCCGAGGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTA  
GTTTCGTCAGATCCTAGGAAGTGTCCTGACGGAGAAGTTTTACAAATGAACCTTCGAAC  
TGAAGTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCCTTATCCCAGAAAAAG  
ACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAANTGGTAATAGTAATCA  
CTATCATCATCATGTGACATCCANAAAGCCACAAACAGAGCGGTCTTACCAGTGACTTG  
TCCATTGGTTCCAATTCCTAGC

Sequence 926

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAACACAAGATTGCTAATAGACTGCTAATAA  
TAGAACTTAATAAATGAAATAATTTATTTTATTTGTTGCTTGAATACAGAAAGTGC  
TTAGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCACTTCTGAAA  
AGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTTGGGGCTGTTACAGTTAT  
TTCCTTTATTTGAAGAAGGAATATGATATACCTACTTTGTTCCAAGTCACTGCTTATAAT  
GTGCTAATGGTACCT

Sequence 927

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTC  
ATGCCTTGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATG  
TCATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAAGATTTGGGGCAC  
TTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTC  
CAAATATGCAAATGGAATTGAAATTCAACTTAAAAAAGCATATGAAAGAATTCAAGGTTT  
TGAGTCGGTTCAGGTCACCCAATTCGAA

Sequence 928

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAAAGAAAACAAATACCAAGTATTTACAGAT  
CCAGAGAAAGTTCACAAGATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAAT  
AGCCACATTGCAAAACAAACAAAAAAGCAGAACGTTCCCGAGTGTGCCTCCAAAACA  
TAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGGAACCTTGAGCAACCAGCTA  
TCCAAATACAGAGGGGAATCCTCGCTTAGCTAGGGCATGGCCTGAGAGAAGCCCCCTTCTC  
GCTTTCAGAGCCTACAAGTAGTCCCCA

Sequence 929

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTAT  
TTATTGCATTTCTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATAT  
GTTTGTGTGTAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAATAAGAATAA  
GAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCATAAATGTATAGTGCTTAA  
GCTCTGCTTTAAAGGTCTTCCATGTGCTCTTGGGTAACCACTTAGGGCTGAATTCATA

Table 1

GTATAAATATCAATAAATGTTGCAATCACAA

Sequence 930

CCCTTAGCGTGGTCNCGGCCGAGGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTC  
TGAAATCTGGGCCCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTC  
TCACNNGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCAGGGATAG  
TGGCTTGGGCCCTTCNTCTGGCTTTTCTCCCAACNCTTTGCTCCACTTCTAACATTTTTT  
TNCCTTCATCTNACATGAAAGGGACAANGGGTTAACCCCAAGNAGGGAGGGCAGAAAACA  
ANGNNCCCCACATCCTGGCTNTGCCTTCTGAC

Sequence 931

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCAGGGATTANAGACAGGGTCTGGCTCTTT  
TGCCCAGGCTGGAGTGCAAGTGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCT  
CAAGAGATCCTNCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCAGC  
CCTGGCTAATTTAAAAATTTTTTTATAGANACAAGGTCTCACTATGTTGCCACACTGG  
TAAAGTATTTTTAAATTTGAGACATGAATAATGATGCAAATCATCCTTTNTATGGGTCTG  
ATTCTGTTCTGTTACCTTATTCAAGGACTAA

Sequence 932

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGNAT  
TTTTAGTAAACACGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCT  
GATCATCCGCCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGTATNTGGCC  
ANANAAATTTTTTAATAAATTTTTTCAGTTACCACTTAAAGGGAAATATGATTAAAAA  
AACTAAATAAAGAAGAGCTTTAGTAAACCATGCCCTCTTGCTAATCTATTAANAGTCAA  
ATCTGAA

Sequence 933

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTATGTTTCCACTTATGGACAGATAATTAC  
GTAGTAAACATAGAAACACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCAC  
CCATGGGGAGGGACAGAAAGGAAATAGGATGGAAGGGGTTGAGGGACTTCAACTGTATTT  
GTGATGTTTTAGTTCTTTAAACAAAAATCTAAATGACATTTGAAATATGAAACAAACGC  
AGAAAACATCAAAATGTCAACAATACTTAAACCTGAGTGTGGGTGCCTGAATGTTATAT  
TGGTCTCTGCA

Sequence 934

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGTATATGAGCAATTGCTCAGCAGTGTTT  
GGATATAGGGAGTGGATAGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACA  
GAGAATTATGTATCTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTACAAA  
GCTGCAGTTATAGAACAATCTGATTTCTGCCTCACCCCCACGGTTAATACTGTAAAA  
CATTTCTACGTTTCATCTGATAGTGTTATTAATAAGCTGTTATTTTAAATAGCTATA  
CTAAACATAAAAAATGTTTAGGCCAGGCGT

Sequence 935

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATTCATAAGATAAGGATTAATGAATTAA  
ATATATAAATCCCTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATC  
AAATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTTTCGTAGTG  
ATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATATGTCTATTTGGTTTACCA  
CTGTATCCTCAACAACTGCTGGTTGTCCCTATTGTAGGTGTTAGGTATTAAGTGCAATCAT  
AGTGAATACATAAAGGTT

Sequence 936

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAGATTAAGTATTAATATGCTGTGAGTGCA  
ATAGAGAACAGAAACAGGCTGTTTGATTTCACCATGGTCAATGCTCTGATGTGCCAAACA  
CAGGAGGTTGTGGGAACATATAGACAGTGACCAAACCTTTAATGAATACAGGAAGATTTT  
CTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTTACCAGGTTCCAGAACTTAA  
GTGATAATAATCTTTTTATCATAAAATTTAAGTGTGGTAGAGAATAAAAGTTTGAATT  
AAATGTTGAATGAAATGTGTTAT

Sequence 937

CCCTTTCGAGCGGCCGCCCGGGCAGGTACACTAAAAATAGAATATAAGGCAGTGAAATCA  
AATCCTGGCTCACTTGAAGAAATAACAGTCTGTGGGCAACTNGGTTGTTTCTCAGGTCA  
CTCAGGGGACAGATGGTCCCTAAGGTGCAAAAGAATGAAGTGGTCTGATATATGACTGA  
TAAGTTTCTGTAACGGGCCACTGACCATTTCATTTCCCAAGGAACATAAATTACCTTTTA  
GCCTGTGATTTACACACAAATATGCAACCTGCAAACCTTCTTCTGAGGACAGATGTCAAC

Table 1

TACTTTTTCATTTTTTTTTTACAGTCAAA

Sequence 938

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTATACTTCACCAGATATCTATAGAACATT  
CCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGATGTGGAACAT  
TCTCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAAAAGGACTG  
ATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATAACAGAA  
GAAAATTTGGGAAATTCACAAATATGTAGAAATTAACAAACACACTCCTTAAACAACCAG  
TGGGTCAGAAAAGAAATCACAAGG

Sequence 939

CTTCCATACTCTTTTAATTGGATATGCCAGTGTGTNTCANTAATTTCCAGTGGCTGTAAA  
ACTTTGAGAAATTTGTAGCTTTTAGAAACCACATACCTGTATTGCCTGATTGCTTATTA  
AGTGATCTCTTAGAGGTTTCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTTTCC  
ATGAAAATTTTCAGTGGTGACAAATTATAGAAATTTATCATTCAATTCAGTCTTAACTAGAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTT

Sequence 940

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGA  
GAAGCAAAGAAATGTGCCCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAG  
GTTGGTCGAATGCCGCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAGAGA  
AGAGACAGAAGTAGCCAGGATGAAGGTCCTCAGGTTTAAAGAAGAAGTATGAAAAAGGAAA  
AGATTTTGTTCGTGGTTTTTTTACTATAAAGGAAAACTTTAAATAATAGCAAGAGTG  
CTATAGGTAAGATATCAGA

Sequence 941

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGA  
GACGGAAAAATTTGATATCAAAGGAAGTATCAAACCCTTGATGTGGTTAAGAGCATGGA  
TAGTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGCAAAGAAAC  
TGGAATGTAGAGGATGAACATATTGGTAATAATAACTGGTGGAATTGTTATTCAGGAA  
AAAATAGCAATTATTCCTGTTTCATATCTCAAATCATTGTATGTTGTTTATTTAAAGGGAG  
ACATGGTAGAAGATATCAAATATAAAAA

Sequence 942

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAAAATGGCTGTTTTTCCCACATTAGTCAG  
CTCTGGATTTTGCATGTGTGGGGCTTTTTTTTGTATAGTTATTTGTTTTTATTTTAAAA  
ATTTATTTTGCCAAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTATTGGCCAT  
CTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATTTGCCGTCTGCTGTGAAAT  
GTCTTAAATTTTTTGCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTAAAGACT  
TCTGATGATTTTTATTGT

Sequence 943

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTG  
GTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTT  
ACTGATTAATGTGTATATACTAGTTCTGTACTAAGGAGGGATGTTAAATTAATCCCTAG  
CTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCATAAATTTTTGGAGC  
TGTTAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTACCTTTTATCA  
TTAGGAAAC

Sequence 944

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATCAACTTTCTTTTTACTATCTGGAAAT  
AGGAAATGTTCCATTCACTATGGTGACAAAACGTGAAAATAGGAATATATTTCTGAGGA  
AAGTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTAATACCCAC  
TTTACAAAATTAATAATGAATTACAGCTTTTTTAAAAATAGATTAAGCTGGGTGTGATGAC  
ATGGCACCTATAGTCACAGCTACTCAGAAGGCTGAGGCAGGAGAAGCACCTGAGCCCAGG  
AGTTTGAGGCTCTAGTGAGCTAT

Sequence 945

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTGCAAGTCCAAAGAGGACCAGGAGGATCCC  
CGCCAAAAGAAGGGTAATCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGC  
TTGAATGAATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCTTGC  
CTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTGGCAGTGCCCGAGG  
GCAAGGTGTGAGAGCCCTAGTGGCAGGGAGATGGCATCCACATATGAGGGAGGGTGACAT  
GGTGCTAACTGGGCATCTACATAGGGCAGGG

Table 1

## Sequence 946

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTNG  
ACTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGA  
AGCATTTCCTGGGAGGTTTTCTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA  
ATTGGAAAATAGAAACNAGTATCTAGAAGAAAAATCACTCATAATCCANCACCCTGTAA  
ATACTTTGTCTTTTCTTACAGTTTCTAATA

## Sequence 947

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTAGATGAGAACTACTTATTTAGAGTGGCAG  
AGCATGCTATAGAAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAG  
TGAGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGC

## Sequence 948

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGA  
CTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAA  
GCATTTCTGGGAGGTTTTCTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAA  
TTGGAAAATAGAAACAAGTATCTAGAAGAAAAATCACTCATAATTCAGCACCTGTAA  
TACTTTGTCTTTTCTTACAGT

## Sequence 949

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCAAGAACTAAATTGTGATACGATAGGTGACT  
TATGAGTAGCACAGAATGTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTG  
TCAAGGTAGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCAAAC  
TGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAATTTCTGAAAGTCATTT  
TTTCTTATTCCACTTTGTGCCTTTTTTTAAAAGCTGCAGCTTCATGGAATTTAATCCTGG  
TATTTAAACACT

## Sequence 950

CCCTTTTCGAGCGGCCGCCCGGGCAGGTAAGTATTTAATGAATTATTTTATAAATTGC  
TTAATTACCATCTATTCACTGATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTC  
TAAAGGTCTGCACCCACATATGCAAAATAATA

## Sequence 951

CGGCCGAGGTAAGTATTTAATGAATTATTTTATAAATTGC  
AACTTCTAGTGAGATTTTTTTCANAATATTTTGGATGGTTCTCTCACTTTNGTTATTAAG  
CATTAGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACANA  
NAANATATGTTTTCACGTCTTTAACCANTGTTTTTCATAGTGNAAGTCAGGCCTTTCTCC  
TTTGATCTAAGTGGAACCAAGAGGTAGATACTCCCTTTNCTTTAGTTATATAATGGGCT  
TCATGTAAGT

## Sequence 952

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACG  
TTGCAACATTATAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCT  
TGGAACCATCAAATCTGTTAAGACTGAAAAGAAATACCAATGTTTAAATATATCTATAAAA  
TGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCAACAACTTAGGTTGTTCT  
AACATACATACACAAATACAGGAGGGACGTTTATGGGTACATCTGCGAAACATTTTTTC  
CCAAAAAGCTGAATTTT

## Sequence 953

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCAATAATTATGCCACAAATTTATCCTAAA  
TAAGAGTGATTCCCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAAATAG  
AAAACATGACCCCTCCATCCAGAACCAAACTAACTCAGGAGTGATTAGAATCACCTGTG  
GGCATTTCCTCCCAACCCACTACTCTGTAGATTCTGATAAGCGCTCTTAAAGAAGCT  
ACAGCTCTTCCCATTCCTATCTGAAAGCAAGGAACCACTGGCTTTGGTCAGGAAACAG  
GCATACACATCAGATGTGATTATAA

## Sequence 954

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATGTTGTAAAATTTACTATAATTAATAGGA  
ATTAATTAATGAATGCCAAGGGGCGAGGCCACACTTCCTATGATAGTTCTTGCTATAAG  
GTGCTATTTTGTNCTCCTACATTTACTCCATAGTAAGCTNTTGTGAGAAAAAAATG  
CCAGTTTGGTGCGTAGTAGATACGAGAGGCTGNGAAAGGACNGATGACNCCATTACC  
CCATGGGTACAGAATGTATAATGCTTCCCTCTCAAACCTGGGTTGNTTGGNTTTTTT

Table 1

TACA

Sequence 955

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAG  
CATAGCACCTCCATTGACCCACATGGGGCCCTGCCTTGGGCTTCATCAGCCCTTTGGAGT  
CTCAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTGGGTGTG  
TGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCA  
GCGGCCCTAGGTAGAGGCCTGTTGAATTGGATGACAGTGAACTTTGCAGCATTTCTTAA  
CCTCAGAAGTTCAAGA

Sequence 956

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAA  
TGGATGTGTGCAGGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGC  
AAATATTCTTAAAAAGAAAACTTAGGATTTTTTTTTTACAAAAGTTAACTTAAATGCAT  
TATCTAGAATAATGTTATAATCAACGTATAGAGACGTTAGTGAATAGTTCCCTTCATTA  
GGATGTTGAAGGAATATGGTTTCAATATTCACAAATGTCGTGATGCCTATAAATTTTTT  
TACAAACAAGAGTATTGT

Sequence 957

CCCTTAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTG  
TGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACT  
GATTAATGTGTATATACTAGTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAGCTG  
TAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGT  
TAGGTGCATATACGTTTAGGATTATTTGTCTTCTGGTGAACCTAGACCTTTATCATTA  
GGAACTGTCCATATAACCA

Sequence 958

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCATAATATAATCTTTAAATGGGCAACTTC  
TAAATATTGATACAACCATTAATAATAATGCTTATAGGGTAAAAGAAAATTTTTGAAGCA  
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTGCTCACTACTTCATATCTTTTATGTA  
GATTATTCCTATAAACATGTTCCCTAAATCCACATCAGTTTGTAAGTCAATGGATTAA  
ATTATTCAAATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTAT

Sequence 959

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAANA  
CAGTCTTGCTATTTAAGTCCAGGCTGGACTCAAACCTCCTGAANATTGCTCAAGCAATCT  
TCCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTAGGTTCCAG  
CTNTTAAANANTTGTCAGTGTGGTGGGCGAGGTGGGTCACATACACATATAATTATAAG  
GTAAAAATCACAACTACTACAAGAAAGGTGCAACATTTATGAGAAAACCAAGAAGGG

Sequence 960

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCANAAGATAATATAGACCCCAAGGCTAAAGGGAACCATATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTTGTAGAGAACATGGATCCTTGAGGGGGGTAAATGGGC  
AGATAATTCTAGCCACAGATTG

Sequence 961

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATATCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTGTAGAGAACATGGATCCTTGAGGGGGTAAATGG

Sequence 962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCACTGAACACTTGGATTGGAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCACTTTATAATTACAGTTTTAACCACCAC  
ACAACAAAATTAGGATGGTAGTGAATGGAATAAATCAAATGCAAGGTTTTAGTTTAA

Table 1

TANAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAACCTAAATAACCCAATNACA  
AAATTTGAAAATTAGGGTCAAACCT

Sequence 963

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCACTGAACACTTGGATTTGGAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTAAACCACCAC  
AACAAACAAAATTAGGATGGTAGTGAAATGGAACCTAAATCAAATGCAAGGTTTTAGTTTAA  
TAGAACAATGTCATCCTTTAATAATCTTTAAAGAAGAACAACCTAAATAACCCAATAACAA  
AATTGAAATA

Sequence 964

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGC  
CAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATG

Sequence 965

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTG  
CCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGCCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAAACCTATACAAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATGTTTACAATTCTCTAAGAGGAAAAGGAGCATTANCATCAGTGAAACAAAAGTAG  
GGCTATAGAAAAACAATACTTATGAAAAACCAATTGAAATTTTTAGATGGAAAAGCC  
TGAAAGTAAAAAATTCAACACATGGTCTAAAAGAAATAACTGCACACAGCTTGAAGGGAA  
AATTAGTTAATTTTACCNAAGAAA

Sequence 966

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAAGAAAACCTAAAGGAAATAAAAACCTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACCAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGA

Sequence 967

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAAGAAAACCTAAAGGAAATAAAAACCTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACCAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGATACAAAAATAAAATCAAACCTTCTAAAGATGAGAAACTGTAGTGTGAGG  
GGAAAAA

Sequence 968

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTTCTAA  
AGCACCCCTACCCTCATGGCAGTGTCCTCAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCAGCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAGACCTTGAGTGGGCACTCAGCTTTATTAATTTATTTAGGTAATAAAAT  
TTACCTTCCTAATTAATTTCTCAGTAAGTCTGGGAAGCTGTATTATTTAAACATNTTG  
CACAAATTGT

Sequence 969

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTTCTAA  
AGCACCCCTACCCTCATGGCAGTGTCCTCAAGGAAGGGGTTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCAGCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAGACCTTGAGTGGCACTCAAGCTTTATTAATTTATTTAGGTAATAAAAT

Table I

TTTACCTTCCTAAATTAATTCTCAAGTAGTCCTGGGAGCTGTATTTATTTTAAACAT

Sequence 970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTNAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTACCCANTNGAAGTCATGTGGGTTTGGGATTNTTCTTTGT  
ANGANAGGNTCCTAATTACTAATNAGCTTTTCAAATAN

Sequence 971

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTTAAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTACCCAGTGAAGTCATGTGGGTTTGGATTTTCTTTGTAGGAA  
GGTTCCTAATTACTAATTAGCTTTTCAAATAGTTATGAGAATATTCAGGTTTTCTATTT  
CTTCCTGTGTCAATTTTGTGTCTTTTCTATAAATTTGTTTCATCTATAATTTTAAATTT  
TTTGGTATAATTTTTTCAAATAATCTTGATTTATTTACAAGGACAGGGATCTTTA

Sequence 972

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGGGACAGAGTGAGACCCTGNCTN  
AAAAANNTTTTTTGNNTNTGANNNNNGANTAANGAAAAGAAAAGGAAAAGAAAAACA  
AGAAATTAGCTCATGATAGNCAGCTTTATATTATNAATTATGTGACACTTTGGATATTTCT  
AAAAGCACATTACAAAAGTGTATTGTCACTTAAATACCTCAAATTTCCCTGTTATACAT  
GCAGATCATCCCCATTANCCCTGGGTATGGGACTGAACTGTGTACCTTGCCCGGGCGG  
GGCCCGCTTCGAAAAGGGGCGAAATTCAGCNACACTGGGGCGGGCCGGTTTACTTAGT  
GGGATTCCCGAGNCTTCGGGTTACCCCAA

Sequence 973

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTC  
AAAAAAAAAAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAACAAGA  
AATTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATTTCAAAGCA  
CATTCACAAAGNGTATGTCACTTAAATACCTCAAATTTCCCTGTTATACATGCAGATCA  
TTCCCCATTAGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCGCTCGAAAG  
GG

Sequence 974

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCNANACTGTCTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAATCTTGACCAGTANCAAGTTGAAANGGGAGTTTAAAGGTGGGGTGA

Sequence 975

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATNAAAAATTTGGT  
NGGGGCNAANAAANGNNNTTNNCCNANCTCCGAGCAGTACCATGCTATATTGGTCACTG  
TAGCTCTGGTACATANTTTTNGAAGATTGGGGTAATGTGGATTCTCTAGCTTTGTTAAG  
CTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTTTGGTTNCATATT  
AAATTTGTAAATAAAATTT

Sequence 976

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACCTCTCATTTGTCACTTTTCAACACTTCCTGG  
CANGCAGGCANCACTAAGTCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTTCT  
TTTGAGCCAAGGCTCCCCTACTGTCTTTTCATTTTATGTCAAGGCAGGGGAAGACCTCA  
AAGGGCTCTTGCATCCAGTCTCACTTCCAAGAGAGGCACTGAGGCCCTCCAGGATGTG  
GGGACAGGAACCTTTGGGGCCAAGCCGGGGCTGTCCAGAAGATCACCAGGAGGGGCTTAAA  
TTAGTTNGAAAAGGGAGNAGGTCCTTT

Sequence 977

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGG  
CTATTAGTTAGTGATTCTTTGTAGATTTTCTGGAAAGTCTTGTGTTTGTATTAAACAT  
TAACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGAACAATAAT  
ACCAATTCATATGGACCTTCAAATTAGTCTTATAAAATTTTATGGATATTGGNATTAT  
CCCAAGCCAACCTGACTTTTGAGGACTGACAAATAATATCTTAACTTTAACCAGGGGTG  
GATTTCTTGCCATTTNCCTTTTGGNTT

Sequence 978

CCCTTTGAGCGGGCCGCCCCGGGCAGGTACGACTTCACAACACCAACCACAGGTCTCAAGG  
TCAAAAAATGAGCTAGGAGTAAAGTATCTGCTCCAGAATCTACCCCATCCAGAAAGAG

Table 1

CAACCCAACGTGTCTCCTGAGTGGCTCTTAGAGTTTAAAGACTCTGAATGAATGCCTAAATT  
TANAAAGGGTGTGGACCAAGGGATTTTNGGTTAATGTATCNCTAAAAGCANGCTGACTGC  
CAGGATTTCAAGT

Sequence 979

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGGCAGCAGAGTAGGCACTAATATGTGTTG  
AATGAGTAGGTGAAATAAACAAAAACCTAATGGCGATGGAATTTTATGGAAATAAGTAAA  
CTTCATTATTGCTGAAAATACCGCAGATAAATAGAGGGAGGCAGTGTAATAGAGTGGAAA  
GAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTTGAAGGTGAATAGC  
CATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTTTCTTATCTGTAAAAGGGGGAAG  
TCATAATAGCTACTCCTGCCTAACTCATANGTTGTTGAGAAAATGAAGTGATT

Sequence 980

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTACCTTTTATGTATGCTGGAATAAGAACT  
TGTGTCTACATGCATGTAGAAACAATGGAAGGATAGGCAAGGAAATGAAAAAAAATGA  
TAACCTATGGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCGCA  
ATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTAGTTAAATGCAGT  
AAGAAATCCCCACAAGCTCTGCAAAATAAGTTCTGTCAATCAAATCTTACATGATGCAT  
TAACTGAGCTATTTTAAAAATACTACCATGGAATTCATCTTTAAAGGGTGACCTTTGTAAA  
AG

Sequence 981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTA  
ATAAGCCAAAGAAATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCA  
GGAATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTGGCTGCCCC  
TGCCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAA  
CAAGTCAAGGAGGTGATGGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCACTGGAG  
AAGACTCTCCCTTTTTTCATCACTGCCCTACCTAGTTAGGTTGGTCTCTGC

Sequence 982

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCCGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTGAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTTCTCTGGAGTGGAAGCCTAGTAAGATTTATTT

Sequence 983

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACATTTCAAGACATGGCCCAATGCACAAG  
CAACTTCCCAAAGCTGTAATTCACGAGATTCCTCAGGGTCCTCTAAGCTCCTTGAGGGCA  
GAAACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGATTTTCTTT  
TTCTTTTTTAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCTATGCCAGATGGTCTGAT  
TCTGAAGGACAAGAGAAATTCAGNTGGCATAAGCCCTGTGCTTGGCATGTAGTANGTTTCT  
CAGTAACTTTANCTGGCGGGA

Sequence 984

GAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAAAGATGGGGTTTTGCC  
ATGTTGGCTAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCC  
AAAGTGCTGAAATTACAGGTGTGAGCCACCGCGCCCGGCCGAGGACACTATTTTTTGGCT  
TTGGAAGAAATGAATCCTAGTTTTGGTTAGAAAAGTGTCAACAGCATTGTGCCTCTCTA  
TGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAAGCAGGGCTATCCCCG  
CCTTCAGACAATGCTTGTCCCTTATCAAGGGCAGACTGCTGTCTGG

Sequence 985

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGA  
TGAGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTG  
CCTCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCAGCCAGCCGTGTGTG  
TTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTAATTGACAAATAATTTAT  
ATATGGGGTATAATGTGATGTTTTGATGTATACATTGTTGTATACGTTGTAATTGTATAC  
ATTGGGGTTGTATACATTGGGATGTATACCATTGAAATTAATTTGNATCCAGAAAATTA

Sequence 986

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGAATACATAATTTTGAATGGAGTCAGGGC  
TTTCCTAATGATCCATTTTGAATTCACCTAACAGCTGAGGGAAGGTCCAGAGAAGGAAG

Table 1

AACTCAAGGTTAGTAGACAACTTGATATTGAGTTGCACTGGCTGCCTTCTCTTTTGGT  
CCCCTAAAGAGTATTTATCATCTTAGATTAGCTTAAGTTGTGGACAAATATCAAGGGGA  
AAAGTATTTACAGTTAACGTTGGAATCACACGGTTTTCCGGGGTTGTGCCTCTTACCCT  
TCAACTTTGGTGGTTTCTAAAGAGGGACCGATTATTAGTTGCTTTCTACTAAGGAAGGGGA  
AG

Sequence 987

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCCTAGAAAATATTTTTTTTTTGAATGG  
AGTCTCACTGTGTCGCCCAGGCTGGAGTGCAGTGGCNCAAATCTTCNTCTNAAAAAAAAA  
AAAAACAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTAAATGTTCTTAATTC  
CTTCAATCATCCCCCTCTTCTAACTNTNACAGCACTTTCCTCCACTACGGCACGCATTAC  
ACGCCAACTACTCACCAGTTCACGTTTTCCGCCCTNTNTCCCACTTGCCCAATCACAGAN  
TTCCTAAAGAACCAGGACTATGTTCTACTAGTCTTTGTAGCCACTGCACT

Sequence 988

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTCCTGTTTCTACAAATTTATCTTATAATAAT  
TTGTCAAATGTTGAGTGCACAGATTTATTCATTGCAGCATTTGGTTTTTCATATCAAAG  
ATGGGAAACATTGTGCAAAACAATGCCCATCAGTAGTGGATTGATTAAATAAATTAGGTAT  
ATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGAATATGGAAAGAT  
TTCGAAAATATATTGCTAAGATTAAGGAGGAGGGGCAGAAGAAAATAAGTTGGGTA  
AAAAAAACCCAGAAATGTTTACTAATAATTATATTTAAAACTCATAGGATAAACAAAG  
AAGGGTAATGAAATAATTAAT

Sequence 989

CCCTTAGNNTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTAGAN  
ACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTNGAATTNCTTGGACTCAANCAATCCT  
CCCGTGTAGCCTCCCAAATTGCTAGGGTTATAGGTGTGAGCCACCCTGCCAGCCTATG  
TTTATTTTCAAGTGTCAAACAACAAACAAAAATAACACACTNGAAAAAATGATCAGAGA  
ATACGTGTTAAATGAGAAATNGTTCAGGGCTTTTATAAATTTGTGACCTCCACCCTTCCC  
CTTANTCCTTTTTCTCCATAAACTCTAATTNCAAATTTTACTACCACAGCAAAAAAGAGG

Sequence 990

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGC  
TCCAAAAATTAAATAAAAAATAAATTTTACAGAAATACATATTTGCATTGGAATATTT  
AAGAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTNATAGGNAGCTGGGCACAGTGG  
CTCACACCTGTAATCCTAGCACTTTGGG

Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAACTTAAAGTATAATAATAATAAAATTA  
AAAAAACCAAAAACAAAGATTAACAGAAAACAAAACANCAAAAAAATCCCAGCATATAC  
ATTGAGTCATTTGCAGTTTGGGAGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGA  
AGCTTTTCATTTTAAATGGCTATATTACTTAAAGTTTGCANTAAATATTTATTACTTTT

Sequence 992

TGCTCGCTGGACAGAGGGCAACCCAACACTCTAGCCTAAAGCCCCGTGACACCTGCAGCA  
GGTGCTTGCCACGCNTTGCACCCGTTCCCGAANTAAAAAGTCGCCGGTCTTANAAGGCG  
NCGAGNTCTTGGTNGACCTTTGNGCANCCCCACCCGTTGCCAGTCTTGAATGNGGTTACC  
CCANAGNCGCCNCAGGCTGACATGGGAAAGGATGTTCTTTGGGAAAAAAAAAATGGAAC  
CCCGGTGGGTAGNCCCTTGNNGGGCNTGGGNAGCCCCCGGANGGGGTTCGCCGNCNGT

T

TGGCCGGGGCNCAAAATTCANAAGNCAAGGGTTGGGGGNATCCCCGNGGGAACCTTGGG  
G

Sequence 993

ATGCAGAATTCGCCCTTTGAGCGGCCGCCGGGCAGGTACCCCATCAGAGTGTTTCTCTT  
GGCTTNCCTGTATGTAAACCTTACCTAATACTTTAGTCACCACTCTTTCTGTGTTCAAT  
TCCCTTTTAAGNCAAAAAANGGGANGNAAGTAAGTTGGNNATTTGGNGTTTCAAAGNGNC  
CAATTGNCTTTTGNCTTTTTTACACA

Sequence 994

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATA  
CAAATCAGCTGAGGCCTTCACTAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTG  
ACTCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCTGACAATTC

Table 1

CGATGTAGGTGGTCCTTAGAACATATTTTGAGAAATATATTCTGTAGTCTGGCAGATAAA  
GAATTCCTTAACAAGGAGGTCTGCCCGGGCGGCCGNTCGAAAGGGCGGA

Sequence 995

CCCTTAGCGTGGTCGCGGCCGAGGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTA  
ATGAAAACGGATTTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAAAT  
GAGAAGCAAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTAGAATTATG  
TGATGCAATCTCATCCAAGGTATGGTATCAAACCAGACACAGCTAAAAATGTATCATAA  
TAGCAAGGATACAGTAGCAAGGATGGGCCTCAATAAACATTTAAAGTGGA AAAAATTCTTC  
TCTAACTCATATCAAGTACCTGCCCGGGCGGC

Sequence 996

CCCTTTGAGCGGCCGCGGCCGAGGTACCAAAATAGATAAGGATCCTGTTTTTTGAAAT  
GAACCCAGTTGCGCCTTAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGG  
TTTTTTATTCTCTAAATTTGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGGTTCT  
CTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTATGACACTAAATGCT  
TATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGGCTCATGCCTGTAATCCAGCATT  
TTGGGAGGCCGAGCCAGGTGGAT

Sequence 997

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCAACAATAGCTACAAAGGATAGGATACTC  
AATTGCAAGTAGACTTTTCAAATTAATTCACCTACTTCTATTCCCAACTCAATCTAGA  
ATATTATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTACCAATC  
TAATTGTTTTTACTCACACCTGTNGATGTCACCTTAAAAATGTGAATATTAATTTCTTCA  
AAACTACTCCAATTTAAGTAATGAGTTAGAGCTTTGGCAACCATTAAAGGCTCTCTTTTCC  
CAACTCTAACCAATATGTGGTAATGTCTTCCCTGACTTCATTTTATGTTACACAAAATCA  
AAGGTTATATTTAAAGGGTTTTCTACATTTTTTTGGGATATTTACCTCCTTGNAAATTTAG  
NNTTATATGTCTGGATTACAAAACATATNATATTCAAAGAATTTNTAACACTTAGAGGT  
AGAAGTGAAATTACAGGTTGAAGAATTATTTAAA

Sequence 998

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATT  
CATGATAAATTTTGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGC  
AACCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCACGTGTGAC  
TTAGACGTTCCATGAAACAAATGCTTATCTTACAGTGTGTTTTCTGCTCTGGTATTTTAC  
TTATATTCTATTAATAGATATGTGTGTATAAACTTATTGATATAAAAATGTGGTCATGA  
TCCACTAAAGTGATTTTACAAGCCACTAATGG

Sequence 999

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACTGGGTTNTCCTTTTTNATNATTCTGN  
AAAATNANAAAAACCNAAANCCTGTTNATNTAGGGTTTTNATGGNTANAGTTGNANAAAA  
CTGNNTTTTGTNAGTTTNAANAAGNCCATTTNAATGAGTNAAATTTTTNAAAANCCTCNA  
AANCNAACAAANCTGNAAAAAAGTAGGGGNGGGGTNAAATGGTTNATTTNAAATGTTTG  
CCTTCANTANCATGAGAGGG

Sequence 1000

CCCTTTGAGCGGCCGCGGCCGAGGTACTAAGTAATATTTATTTAAAAAAGCATTAAAT  
TTATCTATCTATATAACTAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATC  
TGAAACTCTTCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTCATT  
ATTTCTGTGGCATTATACTATGCCCTTTGTATATGCTTTTTTTCCCATAGAGCATT  
TTCCCATAGAACTTTGTATTCTCCACTTCTACCACCTTTCTTTGAAGAACTCTTATTTA  
CCATTTCTTGGACTAAATTAGGAA

Sequence 1001

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAATATGGTATATCTCTTCATTTATTTAGC  
TCTTTTTAAATTTGTTTTGGTAATATTCTGTGATTTTTTTTTTTTTTTTGGTATGGAGG  
TCTTACATCTTTTGAAAATTTATCCTAATACTTTGGATTTTGACATTATCATAAAAAGA  
AAATTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAACATATANTTAATNTTTAT  
ATTTAATCTTGATCCTATNACTTTGCTAAATTCATATA

Sequence 1002

CCCTTTGAGCGGCCGCGGCCGAGGTACTACTTGGCATTAAATTAGATTGTGATCATAAG  
TCAAAATGTCATTGGTTATAAAGTGATCATCAGACCATGCAGACTATTACTAATATTGGT

Table 1

TATGTTTTAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTATCA  
TACCCCCCAAAAAGTGTCAATGGTCTCCAGGACTCTGTAGTCCCATCCAAGAAAGACT  
GTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGATGGTGTCTGTCTGCTATTCTG  
GTATTAACAACCTGCCAAATGTCTTGATTACATGTCTAAAAAAGTGAGGGGAAGAAGT  
GTAGGACAAATGCAAAATAAAATAACACATTTAGCTATACTTTTAAAGTATTTTTTATT

Sequence 1003

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTCACTGAACCAA  
TTTTCTATACCTTTTTCTTGATTCTTTCCCTTAGCTTTTGTTTATATGGTTGCTATATT  
TTTCAAGCCTCATACCAGTCATATAAAACCATGATAAACTTCATCAAAGCATACTTGGG  
CAAATTTCAATTATCAAGTAAATGTAAAGAAAAATTTTTACTAGTTTGGAAATAGAT  
CTACATGTTTGATTTTCTTTCCCTCCCTCCTTTGTTTCTGTCTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTACCACAAATTAGTGTTTGGTATACCCATAA

Sequence 1004

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGAACTTAAAAGTTGAACAACAAAAAAGA  
AGGAAATGCGTTAATACCTTATTGTAATTATTATTTTTGGAAGACTATTTTTATATT  
CAGAAGAAGTGTGAGAGTCAGCAGAAAGGGATTATTTCTCCATTACCTACAACAATGGT  
TTTAAATGACTGGATAGATAGAAATCTCTTCAACTTAACTGCTTAGCACATTGCATTTT  
TCTCTGTTTCAAGTTAGTTTCCAAAGGATTACTGACTTTTTACCTAATTTGCTAAGGGA  
TGTCAGGCCCTTAATGACATATTTCTCTCAAATAAAGGATACAACATGC

Sequence 1005

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTTCTGAAATANGGAATAT  
AACACTTGACTATTCTGATTCAGNAGAACATAAAAAATGTTCTAACAAAACAGAACCCAGA  
CACATTTATATNTATTTCTACAAGTNAACAGAATATCTATTAGA

Sequence 1006

CCCTTTGAGCGGGCCGCCCGGGCAGGTACATAGTTCTGCTTGCATTGGTCCCATTACAAT  
CCTGTCTAAATCCTGAAGTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGA  
AAGAGGCTGGTCCAACCTCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTTAGG  
AAAGGTTGCATTAAATATTCAGTAGTTAAATGTGCGATTCTAAATTTTTGTAATTTCCC  
ATGAGAGAATAAATTTTTCAAAAATATCCAGTAGGTGAATGGCTTAATACATGGTA  
TCTGTGAAGATGGCAAATAAATGAC

Sequence 1007

NTNTTNGNNAATNCNCNNTTAGCGNGGTGCGAGGGGCGNGGNNCATNTAAAANGTGATGC  
TAATACTTTAAAATGTGTTAAGATATATGATTTAAAAGCATTGTNAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGACAGGACANTAAATGTAAACATAAANAGTGCNAATTG  
TTACACTTACATATGAATAGCTGAAATGNGCAACAGTGGACGCAANTTTTTNGTCTTC  
AAGTTTTANTAATTACCCCAANAANACCTATTTAACNAGGCTGATNCTAACNTGGGGGAT  
ATTTAATGGNTTCTTATTAATTTGGACCNAAAAANTCTTTTGAATTAANCTTGGGCN  
ANTTCGCAACCAAAACCAATTTTAAT

Sequence 1008

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGG  
AGGCTATTCAAGCTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCT  
TTGTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTATCGAATTCC  
TGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAGTTGAGCTTTTCTATTCTT  
AGAATTTAGATTTCTTCTTTTAAAAATTTATCTCCTTTTATAGTAGTAAAAATAT  
TTTCTTTTGTGGAATGGGAGGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTT

Sequence 1009

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTGCTACAGCGTTTAGCTCCGTTTGT  
TTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGATGTTACAGCTTATTCTCACT  
ATGTAAATTAAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCCACCAG  
ACCTTCACTCTATTGCAGTCATTTCTCCCACTCTCCCCCTCTCTCCCACTTCTCTGA  
GGATTACCTTCCCCTCTCTCANCATTCCTCTGTCTAGTGGCTTTTTTTTCTTTGGCATG  
CAAACATGCTCAAGTCTGTCTTATA

Sequence 1010

CCCTTAGCGTGGTCGCTNTTCGAGGTACTCTTTTCAGATGAAAGTGTTCCGGTCACCTGGA  
ACCTGTGAGTATGTGGTTTTGATCTGTGACTAAACTGTCCCCATTCCCAGTTTCTCTG

Table 1

CTCCGTCAAATATCAACATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCATTTTTA  
TTTGGTGTGGCTTCTTGGGAAACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAAAA  
CAAGGACAGATGCACCAGAGGTGGCATCAGGAACAAATGGGTATAAGAACTTACCTTGG  
CAGCAGCCCCAGAATGGTNAGGAGGAAAGGCACTNTAAGGTATCAGAAGGTAGAAAGGAN  
AGGTTGGATNATAGNAATGGGGGAAAGGG

## Sequence 1011

CCCTTNTNNTGGTCGCGGCCGAGGTACTGAGACACTGGATCCTAAGAAAATCAGAGTTAT  
AGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAA  
TAGGATAGATAGGCGATGTGGCAGCAACAACCTCCCAATTCGTAATGTCTTAAAAACAAAA  
CAAGTTTTATTTCCCATTTATGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCC  
ATGCATTTACTCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAGAACAAAAAGAAA

## Sequence 1012

CCCTTTCGAGCGGCCNTTTNNGGCAGGTACGGGCTTTTTTGTCTTGTGCAGTAACAGTG  
AGGCGCATGATTAGCCATCTTTGCCAGCTGATGTCTTGTGGACACCTGCCTTGTACCAC  
TCTAACAGGCCCCGTGTCAGCAGCTCCGCTTCTCTGACAAGCTGCGAGCACAGGGGACA  
GCACAATCTGAAACTCTTACNGATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGG  
CAAGCATTAAATCTAAAATTTTTTTTAA

## Sequence 1013

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGTCTCACCATGTTGGCCAGGCC  
G

GTCTCAAATTCCTGACCTCAAGTGATCCTCCCCCGTCAGCCTCCCAAAGTGCCAGGATTA  
TAAGCAGGAGCCACCGCGCCCGAGCCTATTTTGTTCCTTAAATTTTTTGTTCCTCAGTCA  
CCACAATTTTACCATGCATAAATCACAACGGTTAACAATTTAGCATCTTTGCCTTCTTTT  
CCTGTGCACTTACGTTTTATGTAGCCAAGATCACACGTTGCATTTTGTGCTTTCCTTA  
ACAGCGTCTAAGTCATCAGCACTCTATTGTGATGATTATCTTAAAAATTTCCAAGCGA  
TCATTTTTAGTAACTGTGTAATATTATATCATAAAGTTAAACATAATTTGTCAATCAAT  
TGTTGAAATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATAAAA  
AGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGGTTCCTTAGCATAGA  
GACTGTGGGAATAGGATTTCTTGAAAAAANGTAAAAAGTGTGAGTATGCATATATACCTG  
GTACATATATGTTATTATTATAAANGTAATATTCTTTTTTTTTTGGAGAAAGAANTCTC  
ACTGNACTTCANNCTGGGGTAAAAGTGAGACCCCTGTCTNAAACCAACCGGAAAAA

## Sequence 1014

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTATTCAGACAAGAGTTCTGACTCTCATGCTT  
GAGGATAAGATTATACATTTTCACTATTACATTGAAGATATTTTCAATTTTAAACCAGACTAA  
CTTAGTATATTGTTATTTTAAATGTGACCAAAGAAATATTTTATAGAAGCTAATGCTGA  
GTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCAAAAAATTTATTTTCTACTATTTAC  
ATATTATCCTAGTGGATATTACATTACTTACTGAAGCCTTTGGTTCTATGTTTCTATC  
TCAGACTTAAATTCAGGAAGAGCTTCATCCAGATGTTTTGTTTATTTGTTTCTCGATTACA  
TGATGAGATTTTCAGAATTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGT  
CAAGTAAGAAGCTAAAAATTTGTGAAACCAAAGAAATGACAGGACAGTGCCAAATGAAAGG  
TCAAAAGTCAAGTGACAGACTCAGTACCTCGGCCCGCGACCACGCTAAGGG

## Sequence 1015

CCCTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGAGAACCAGTGACAACCTGTCAAATTA  
TTGTAGTTAGCCAGTGAATTTTCAATTTTTGAATTTTTTCTTCTTTCGAGACAGGGTCTTG  
CTGTTGCTCAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTCTC  
AGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTTCTGAATTTTTTA  
AACAAATAAATATCAAGCAATCAGATGCCAAAAATTACAAAAGAAAATCAGTATCAAAAA  
TTTGGAGTTTGAGGCCAGGCACGGTGGCTCAGGCCTATAATCCCAGCACTTTGAGAAGCT  
GAGGCGGGCAGATCACGAGGTCAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCC  
CGTCTCTACTAAAAGTACCTCGGCCCGCGACCACGCTAAAGGG

## Sequence 1016

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATAAATAGTTAACATATTTCCCCTATATG  
CGGAAATGCTGACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACAACAGTCCT  
TGCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGCAACATTCG  
TAAACCAAGAAATGATGTGTGACAAGAACTAAAGAACTGGACGAAATTCACCTCCATTC

Table 1

ACCCTGGTTAAAGCTTCCTTGAATCAGAGATAAGAAACAACATGAAAAATCTATTCTTT  
TAGAAAACAAGTCTTTAACCAGAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGC  
CCACATACCGCTCGTTCAAATATAATGCTGTGGTTTCAACTCTGCTAAATGTTGCTGT  
GACTTTTAAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATATAACTCAG  
ACATCAATAATTCATTTTATTGGAAATAGGAGTAGTAGTATGAAATGCTAGCANACTGTT  
TCATTTGCAGGGAGGCATTTTCTA

Sequence 1017

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGAT  
GGAGACTGGCTATAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTTGCTT  
TGAAGGACTGGTGACAAAGTTTGGACTTTACCTTGACAGACAGTGGGGAGCCATTGAAGAT  
TTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTAATTTAAAAAATTTAAATTAAGG  
CTAGCAGGATTCAGTTTTCAAAGTGGCCAGCTGTGGACTAAATCCAGCCTACAGATACAT  
CTTGTTTGACCAGCAGAGAGGCTTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGA  
GAAGATTAAATATAAAATTTCAAGTTTCCATCATCTTTTAAATATTAGGAGTTCCAGCA  
ATGCCGGGCCTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAGCAAGCTGT  
GCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTACTGACCCCCATATNCATT  
TTTAAAGATTTTTTAAATTTTTATGGATACATAATACTTGNCCCTGCCC

Sequence 1018

CCCCTGAGCGGGCGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGTCTTACTTGGGA  
TGCATCAGTGAACAAAACAAAGGTATCTGTCTTATGAAATTTATATCATAGCAGAGGAA  
GACTGGAAATGAATAAATAAATAAAGAATGGAGTTTGTGGAAGGTAATAAGTTCTGTGG  
AAACAAGGAAAACCAAGGCATGGAGGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGAT  
TGCTCTTGCTCAGTTTTCTGTCTTCTTTGTTTAGGAAATGTCAATCTCTGTATGCTTC  
ATTATAATATACAAATAAATATGAATTGTTATAATTTAAGATAAATTATATAAATATAA  
ATTATAA

Sequence 1019

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATAGAAATATATATTAATAAAGCTT  
GAAGGGTGAATTAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAACAAATATT  
TACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTTCATATACAGAGTTCTTGCCCTTG  
GGAGTTNTACAACCTGCTTAACACTTTGTCTATGCTAGAATACA

Sequence 1020

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATGCTTTCAGCCCAGGAGCAGAAAGAGAAG  
TGGGCTCTTTGCTTTGAGAGTCTCTGAAAATTTTCAATACCCTGGGACAAATTAATGAG  
GTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTGTTTGTCTCCATAAAACAGGCT  
TTGACCATTAAGGTTTATATTTTAAATGGGTAAATTTTATTGTAATACACTAATTTTAAAG  
AAAAGAATTAACCTCATGGCTTAAAAGCAAAAACAGACCTTGGATTTCAACCATAACTTT  
AAGGCTGGTCATTTTAACCCTGATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTAT  
TTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAG  
CTAGAGTGAAAATGTTAAAAACAAAACAAAAAGACAGCATACTGGCTACCAGTTTTTCT  
TAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAA  
GGATATTTCTTCACTGAAAGAAAACT

Sequence 1021

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTACAGTCTTAAGATATCCATACACCCCCAC  
ATCCGTCCTTTGTGCTAGAAGATTACTGAANATTTAATTCATTTATGTCATTGGATTTG  
TAAAAAACCCCTTCTGGATTCAAAGATGAAGGCCTCACTTACTTTATTTTGTCAATTTTCT  
ACAGACCCCTTATGTAATGCCTCAAGAGTAAAGAATCTTGCTCAAGTGATTTTGTATC  
TCCAATGGCTAACAAGGAGCCTGACATAGAAGTAGCTGCTTGGTAAATATGTGTTCAATC  
ATTCAACAAATACCCCCCAAGGGACCTCGGGCCGGGGACCACCGCTAAGGGCGAAATTC  
AGCACACTGGGCGGGCGGTTACTAAGTGGATCTCGAGCTCGGTACCAAGCTTGGCCGTA  
ATCATGGTCATAG

Sequence 1022

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGTGTGGGCCACTAATACATAAGCATCTGTGT  
TGGCTGGGGGTAGGTGTAGGGGGTGCTTGGGGAGAGATTTAAACAAACCCCTTCTCTAC  
TTGCAACATCTCTTAAAGCTTGTATCATGTTACTTCTTCTTTAGAGTTTCATTTG  
TTAAGACGGAAACGTGCTTCATCTTGTTCGCTTTTCTGCATTCCTTGTAACTTAATA

Table 1

TTCTAATTANCCCCAACACGGAAAAAGAAATGTAACACAACCTGTCTTAGTTGTGCCATAGAG  
TTAGAATCTATCTATTAACATGTTTTAGGTNATAACAAGAAAAATAATAAAAAACAAACCT  
ATTATGAGAAGCTGCCCATGCCAATAAATTTTGAAACATTACCAGGAAATATAAAAGGAA  
NG

## Sequence 1023

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATATTTCAAACAACATTTTCTAAATTAATT  
AATGTTTTCACTCATAATTATGTGTTCTTCCCACTTCTATATTCTCTATTTGGGGAAATA  
ATCCCATCAACCACCAACCGGCCCAACCAGGAACCTGAACTAACCATATTTCCCTCCC  
ATTGCACATAAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATCCACTCTTCTATTTG  
CAGTGGCAATACTTAGGGCTTNCCTTACTTTTTACCAGGACTATTACTAGAGCTNCCTAA  
ATGCTTTCTATCTGTAGGCTTACTCTTCTGCATTTCTAT

## Sequence 1024

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAATGGAAAGATGATCTTCTGCATTGTGA  
AGGTTGTTCTCATCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGC  
AATGGAAAGAGGACACATCCGCTTGCCAGGTCACCTTCTATCAGTTGATGACATGCCATAT  
TGTTATGGCTAGGTCAGCTTTCCACAAGTATGCACATGCAAAATAGAACCTGGGAAAAAA  
ATCTTTGATTTGGCCCTTTACCAAGTGGATCAGGTGTGTCAGAGTTCAAGTTGAGCAAAG  
GTCAGAGTTTAA

## Sequence 1025

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTCCTCCCTTCGGACCACTCTCCCCACTA  
GACAGCTGTATGGCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACC  
TCATTGTCTCAAACATTATATAGAACACACACGCACCCATGCACGCACACCGTCTGTTCTT  
CATCCGCTTGGTTCCGTGCACTATTCCAGGACCTACAGCAGTGCCTAGAACACAGAACAT  
CCATTAGCAACATTTGTTTAATGAATTTATAGTGCCTAAACCTGCACAACCTGACTTTG  
CCTTGCTATTAGAAAAATGCAAGGCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTT  
TGAGAGGCCGAGGTGGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACA  
TGGCGAAACCTNTTCTTTACTAAAAAT

## Sequence 1026

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAG  
TGGGGAAGGGGCAGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAA  
CAATTAAGATCATGTTTCCTACTTGATTTAGTTGCTAGTCATTTCTTAATCTAAGCACC  
CCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGTAATAATGTGGGGGCGGGG  
GAAGTCTATACAAGAATATTAAGGCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAA  
TGAGAAAGCATCAAATTGTGGTGCAAAACAGCTGAAAGTAGAAGTAAATCACAACGTAATA  
AGATGCAACTTTGGAGGAGCTCAAAGCAACANATACGTTTTTTATCCAAAAAGGAGTAAA  
AGAAAAAATCGCNACGGCAGTTCCTTCAGATAATCAACNGATGATTTTCAATTTGANAACCA  
TAATTAAGTAGCGTTGTTTGTAATAAATTTTTTTCATTTATACNTTTTAAATGNTTATTA  
A

## Sequence 1027

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCCTTTCTTTCCCTAGACCGATTCTAG  
TTTGTTGCCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGC  
CCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCC  
TTTGTCCTTAAGAATGAGGTTTGAAAGCCCCAGTTCTTCATGTTAGGTGATTTCTTGCA  
GCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAAATATTAACAGCTTT

## Sequence 1028

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAAGCTGTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGT  
GCAACAACTTACTCGGTGTGGCAGGGGTNTCCNGGTGTCTGGCTCTGATCTTGGTCGCTG  
GATAGNCGNCTGTNTNTCTTTAGGTGCCAAGGCCGACGGC

## Sequence 1029

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTAAACATTTAGACTCCTTTGTGCCTTNTGG  
AATGGGAATTGCTTAAGCTGTCTTGAAAAAATNGCCTTTAACATCTGTTNGATTGAGATT  
TGTGATACATAGAAGTTGGGAGGAAGATGTCGGAAAGCCCTAAGAGAGCTACTTGCCAAC  
CCCACCATNAGGTCTNCCTCAGTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGAAATT  
ACGATAAGNCTTTGAATGCAGCATAAACAGACC

## Sequence 1030

Table 1

CCCTTTGAGCGGCCGCCGGGCGAGGTACTTTGACCTGTATGTAACTCTAGTTACTTTGG  
TCTTCTCAGGCTCTTGACTCTTTCACAATTAAAGTAGTCTTTGAGGCTCAGCNCTGCTTT  
CCTCATAGCTATGCTATTGGCCTGGACACTCAAGGGAGTATAAGCTNGAGGCAAACATGG  
ACTCATTTGTNTTCTAACTTTCAGGGGATTATTTGNCCATCATTGCCTGATGTCCAGTG  
TCT

## Sequence 1031

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTTGTTTTGTTCAAATCACAATTTAAATACT  
TCGTGATTTTAGAAATAATTGGAGCCACCGTTTTACCATTAAAGGTGAGTGATTGTTTCAG  
ATACATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAGACCATTCCCAGAG  
TGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAACTATAAGAATGACAAAC  
TACAGCAGTTGAAAATGTGTCTTCAGATACTCACTTGCAACTCCCATTATGTCTCTAGG  
GATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTTGGTCAGTAAGAGTGAGGTAACA  
TATAAATATTAATGTTCTGTTGNAGTTAGTGTGGTACCTGCCCGGGCGGCC

## Sequence 1032

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAAC  
CTCCCGGGGCCAAGCAATCCTCCACCTCAGCCTCCCCAGTAGCTGTGTTCCAAAGAAAT  
TTATTTATAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGTCAACTGCC  
ATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAATGCTATGATATAGA  
CACTGTGTTCCCTTTAATAGACAAAGGAACCCAGGCACAGAAAGGATTGACTAATATGACC  
AAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTC  
CACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACCAGAGCCCAGGCAGTAGCAACGGCT  
ATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATGGTCCAGAGCTGGAGGGA  
GTGGAGAACTAGCCATTTGTGACTTTGTGAACAATCCCTGGGGGAGTCTGGAAATTA

## Sequence 1033

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTATTAAAGAGAAAGACAGG  
AGTCAAAGATAGTTCAAAACTTTTGAACAGAACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAAATTGGCAGGA  
CAAAATCATAGCTAGAGATAAAAAATTTAGAGTTCACCAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAG

## Sequence 1034

TCGCCCCGCGTCCGNGNACGCGTGGGCAGGCATTANTTNNNGCCAGTTTATGAGTGTGA  
GCATACCACAGTACTGATTACTGTGAAGCTGAGNCCCATTATATGTTNATTGATGTTT  
AAGATTTTCTGTTCAACAAATTGTTCATTTTCTTTGCCCGTNTTTCTTTNTGAGTAATN  
CTTTGTATATTGNGGATGTTGATCATTATGGATTATAAAA

## Sequence 1035

CCCTTTGAGCGGCCGCCGGGCGAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTAGCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCTGACTGATAAACTTTTTGCCCTCCAGCAATGGAAATGTGGGAAAAATCCAG  
ATGCTAAATGATCTGGCTTGACCCAGCAGGTTGAGGTAGTGAGGCCCTTCGATTGAGGC  
ACAGCCCAGGACTGCTGCAAGGGAGAGGCACAACAGAT

## Sequence 1036

AGTCGACCACGCGTCCGGTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAG  
TACCGCATGCATGAGGGCATCTGTGCCTTCCCCCTCTGTGGCGTTCTACAAGAGCAAGCTG  
AAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCCTGGGCCACGCTGGCAAGGAGAG  
C  
TGTCCTGTCATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTNCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACC  
AAGCAGCTGACCCTGGGAGGACCGTATAGCCCCAGGACATCNCCTCACGCCCTAC  
AACGCGCAGGCCTNTGAAGATCATCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGC  
CGTGTCTCCATACCAAGAGCCAGGGGAGCGAGTGCGCTATGTGCTGGTGAGCACCGT  
CCCGCACCTGTGCCAAGAGCGACCTGNACCANCNGGCCACCAAGAGCTGGCTCAAGAAGT  
TTCTGGGCTTCTGTTGTGGACCCCAACCAAGTGAACGTTGGCTTTCAACGCCGNCCTAAG  
ANGGGCTCTGNCTGATCNGAGGACCACCTTCTTNTTGCCTTGTGCCCCCTTTGGCCGT  
AANCNTNCTGGACNTTTTGGCAGGNTTAAAAAACCTTTTCCCTGGCCGGCCAGGTGCC

Table 1

CCTTNTTCAGGAAGGCCAATNTGCCTTTCTGAAAAGNCTTTTCACCTGCAAGNTGCCAGG  
ACTGGGANGGGAAGTTNAGGGCCCCC

Sequence 1037

CCCTTTTCGAGCGGCCGCCGCGGCGAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTANCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAAATGTGGGAAAATTCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGG

Sequence 1038

CCCTTTTCGAGCGGCCGNCGGCGAGGTACTTTGACTATTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCTCTT  
AGTAAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTGCGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTATATTAATAGTTATATGGTAT  
TTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAAGAATATAGGCTAATTT

Sequence 1039

CCCTTAGCGTGGTGCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTGCGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTCTTTAAT'IGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTGAGTGCCAGCTCTCTAAAGTGTTGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTCTCTGGAGTGGAAGCTAGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAAC  
CTTACAAGCAGTGTTGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTGGGAAGC  
CTGCTTCTCTGTGCCTCANCCGGAACCTCAGGTTACTCAGTAGTCATTTGCTAATTTCTGA  
GAACGCANCACTCCTGAAGGGGATAGAAAGCATGAACAATACCC

Sequence 1040

CCCTTTTCGAGCGGCCGCCGCGGCGAGGTACTTTATCAACTGTTTTATAGATGAGAAAACAT  
TAGCCACAGCTTAGCTTATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCA  
AGATTCAAATGTAGATTATTTACTACAGACTGAGAAACGAATTAAGTAGGAGCCTAAG  
ATACTTTCTGGAATTGAAATGATACATTATATATACCTATAAAGATAATTGGCTATAGCT  
TCCTAAACTACAAATGTCTATAAAATGACTTCTGTCTATATCAATTAGAACTGGTAT  
TAAATTGAGTATTATAAGACAATAGAATGT

Sequence 1041

CCCTTCGAGCGGCCGCCGCGGCGAGGTACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTAT  
TTGGATCCAAAGTTGGTCAAGTGTCAGTGTTTAGACATCATGATCTAGGCAACAGAAAT  
TCCTGGCCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAAATAAATATA  
AAAAACCAGTCAACCGTATTCTTATTTCTTCGTGAGAGAATCATGTGTCGTTTGGTTAA  
CTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACATATTAATCTCATTATTTCTGTAGA  
GGACAGGTTGTCCCCCTTCTCATTAGCG

Sequence 1042

CCCTTAGCGTGGTGCGCGGCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGCGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTTAAATTGTAGGGATGTCCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAACTTT

Sequence 1043

CCCTTAGCGTGGTGCGCGGCCGAGGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCAT  
GTTTATTTAAATGTATATATAATCAGTTACATAAAAAGAGGTATGCTTAAATTCTCATG  
ACTCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTATTCATTAA  
AAAAAAGTGACTTTTCTACCTTTAGATAGTGAGGACAATCTGTAACTCTTTGTGTTG  
ATAAAGCAAAACATTTTCAGGGCACGGTGAAAGAAATCTCTACCATGTATAAGGTTATATA  
TATACCAGAAGCAGTGGAGTTAGGACCAAATTAAGATTTGA

Sequence 1044

CCCTTAGCGTGGTGCGCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC

Table 1

CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTGTTGTT  
TGTTTTTAAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANGTCCC  
TGCCCGGGCGGCCGCTCNAAGGG  
Sequence 1045  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTCTGGGTTGTGAATCTTGGAGGTTGCCC  
TGTCAGACTGGTGAGATCCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAGAG  
CCATAGATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGGAACC  
TTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGGAATACCTCCCTGCA  
AAATCTTACACAATACTAATGTCATAAGGCCGAGGATGAGAAAGTAGCACTTAACTGT  
TTCATCCTCATCACATAAAGCATTCC  
Sequence 1046  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCACTTCAAAGTAGTGGAATATAAATCTT  
TCCATTTAACAGCAACATTCAAATATTTCCCATTTCTGCTTATTATTCCTCTCTGAAGGTG  
ATACATAGAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGCTCA  
CATAGATCTTAAAGGAGAGAAGATGAGGGATTTGCCTACAACCCACAGCCAATCTATGTG  
GACACAAAGGGTGACTTCTTCTTCTATTACGTTCTTGGAGGTAGAAATGGTAACTAGC  
ATGACCTCGAATCATAATTTAATATCATTCTA  
Sequence 1047  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTATTGGTAGTATCTCAGAATCCTGCTTAG  
CTTTTGAGATAAACCAAGTCATGATATTTTGGGTAAATATGGCCATAGGTATCATGCAAGA  
TTGAAC TGCCAGTATTTGCCTTTTTCAATATTTACTTTGTAAGAACCTGACACTGTAGG  
TCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAACTCATAGACCAAAA  
AAGCTAAACAAAACAAAAGGAAAAACCCTCTATATACAATCACCTGCTTGCTCTACAT  
TTAATTTGCTTCATTCAAATAAGCA  
Sequence 1048  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTNTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACATTTCCCAAGGCCTGGAAATTCAG  
GAACATAATTCAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGANAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCNGCCNCGACCACNCTAAGGGCGAATTCAGCACACTGGCNGN  
Sequence 1049  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATAAAACAAAGGCATCATAAATAGATATAA  
AGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGA  
TTTTCATTTACAGCTCATCACACCACCGAACTCTCTGGTGATTGCTATCCACATCCAT  
GGCGTTTGGTGCCCTAAAGATTGTAACGGCCCCCATCTTGGTTAAATGGCAGGTG  
TGTTGACAAGAACTGTCTTAGGTACCTCG  
Sequence 1050  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATCTCCAAATCAACTAGACTCTTATG  
TTAAGAATACTAACAAAGAAAAATCCAAACCCCCAATAGAAAAATCCCCAACAAACAT  
ATACCCTTAAACACAAGAATTGTATTATTCAATGAAAGCAATACAAGTAAACACAACAGT  
TACCTTGGCTATTTTTTCAATGTACCTCGGCCGCGACCACGCTAAGGG  
Sequence 1051  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCCATCTCTTCCATTCTGGGAATCTGGGAAAC  
TAAGCCTGTAACCTGTAGCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAAT  
ATATCATTAAATGCACAGGTTAAATAAAATAAATCTATTAATAAAGAGCCTAAAGAAAG  
AAAGATGACATTTAGCACATATTGGGTGAAATAAGTTGTTAGTCCAGCACTTCTCAAT  
TTTTAGTGGATATGTGAATTGCCTATTAAATGCAAATTTTAAATTAGTTAATCTGGGT  
GGACCTGAGTCTGCGTTTCCAACAAGCTCCAGGTGATGT  
Sequence 1052  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAGCTATATACTCATATTTTTATT  
TTTATGTAAAATTTCCAAATGCTTAATATGGCAGTATAATAATTATACTAGATTTACT  
TCAAACATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCATTGAATTAGGAATCAC  
ATGCTATTTTATAGCAGATATCTTAAATTAATGTTTGACCCATGTGAAGTCATTT  
AACAGATCTGTTACGCATTATTCACATATGCAAAATAATCTATATGATCTGAATACCATT  
TCCATCTTTAAATACATATTCC  
Sequence 1053

Table-1

CCCTTTCGAGCGGCCGCCGGGCAGGTACAATCAAAAAAGACAAAAAGAAATGGTGTT  
AAAAGCCACAGTAAACATAAACCTCATATCAAGTATAAAACCACACACACTTTGCTCTTC  
ATCCGGACAATGCCCAAATTATACTGAGGTATTGGGGTGGGCTGATACCTCAAACAGG  
GAGAGAGGGACCATGTTGAGGAGGTGATTCCCTCGATTTAGGTGGTGACTGAATTTTTT  
TTTTAAGACAGGGTCTCACTCTGTCACCCAGGCTGGAATGCAGTGACGTGATCTCGGCTC  
ACTGCAGCATCAACCTCCTGG

Sequence 1054

CCCTTCGAGCGGCCGCCGGGCAGGTACAATGAAAATTACAAAATACTGTTGAGAGAAAT  
TAAAGAAAGACAAATAAATGAAAAGAGACGGAACATGTTTTGCTTGTAAACTCAGTAGG  
ATTAAGATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCANACTGGTT  
TTGTCTGAACGTTTTTGAATAAGTCAATGGCTTATTTCAAATTCATATGAAATTTCAA  
TGCCAAAGANTAGGCAAAATATTTTCAGAAAAGAAGAAAGATTGAGGATTTGCAATAACCT  
GACTTCAAACTCACTAGAAGAAGAGGCCAGACTGCCCAGGGG

Sequence 1055

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATA  
AAGTTATTAACACAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGAC  
AGTGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACATATGAATT  
TGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCATTTTTAACACAAGAACTAT  
TGAGATTACTTATATATFAGTAGTAAAATGTTTGCTTTATTCATTTTGATTGCAAACTT  
ATAATGAACTCAGTGAACCTTGCCCCACCTTTTT

Sequence 1056

CCCTTTCGAGCGGCCGCCGGGCAGGTACATTAACCTCACTGACTTACTCTGGGTTGCTAT  
TGTATTAATAATTCTGTATAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAA  
AATAAAAAATTCTTAAATCTTTAGTGTGGTGTCTATTAATTTTTATGATGATTTACAAGT  
TGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAGAGTGATTACAGTA  
AAGGAAAAATGCCATATATGGCATTGTTCTTAACAGCTTATGAAATTTGGAAAACGATAT  
TTAGAAAGCTTTCTCTTGNTGGCTGGAATGAAGTGGAGACCCTGCT

Sequence 1057

CCCTTCGAGCGGCCGCCGGGCAGGTACAGCTTGTTGAGGATATTTCTTCTATTTTTCTT  
TTGAGTTCTTGTTTCATATTTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAACCAATA  
GACTTTTGTCTTCTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTCTAAG  
TATAACAACCTTACTATTAGCTGTAAATTTTTCATTTTTAGTATGTCATCAATCTTTTT  
TTGTGNTTTAGTATGATTAAATGGTTTTTCACTTGGAAGATATTGAATAGTCTACTTCA  
TTGATTTTTTTTTAAAGTCATTTTCATTTTTT

Sequence 1058

CCCTTTCGAGCGGCCGCCGGGCAGGTACTATACCAGAGTTAAATTGCCTGTGTTCTTTT  
CTGCCATTAACCTGGCTTTGGGTTGGGAAATTCAGATAATTCACCTTTTCCAACCTTAAAA  
TGAGATCTCATTCAAAACAAAATTGCCACAACCATTTGGAATATGTGTTTAAATTAGAC  
AGTAATGCTTTGGAAAGTGGAATTAACATTTGAGAATAATAGCTGTTAGGCCGGGCTCA  
ATGGCTCACGCCTGTAGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCGAGA  
CCAGCCTGGCCAACATGTTAAACCCCTATCTCTATTAATAAATAACAAAATGAGGCATGGT  
TGGCAGGTGCCCGTTGTCCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCA  
GGGAGGTGGAGGTTGCANTAAAGCTGAGATTGCGCCAGTCACTCTAAGTTGGGCAACAA  
GAGTGAGATTCTGTCTCAAAAAATAATAAATTAATAAATAAATAGTTGGTAGATTGAAC  
ATAGAAAACACGTTTTGTAGATAAAAAANTGGCCAAGTNTAGCCACCTTTGACAATTTTT  
TAAAA

Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAATAAATTTAATTTAAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTAAGAACTTTAA  
ATCCTCAGGTAACACCACCACCTGCAAAGTATTAATATCAACTTTTTCAACAAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTAGGAAAATGAACACATTTCTTTTCAGACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATA  
ATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAGTG  
AGCAAATATCTCTTAAAAAGAAGAGACTTTTAAAGTTAACAAGCAAGTGATGTGTTATTC  
AGTAGCAAATAAGATTGTTTCCTAATGTCATAATTCATTTTT

Table 1

## Sequence 1060

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTTACCAAAACCCATCCAACATAAAATTTAA  
GCTTTTGCATTTTAGTGGAATGCAAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACA  
TGATAACTACAGTAATTTTAAAACTGTTTTCTTGATAAGTATAGAGAAATGTACCTC  
GGCCGCGACCAAGCTAAGG

## Sequence 1061

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTACGCTTTATGATCTTGAATTTTTAGNGT  
NTAAGGAATCTCTTCTTCTTTGATCTCCACTGCATGAAGAAGCTCTGTTGCAGGTGTTAA  
CAAGGAAGTTTTGAAATACAAAGCCAGAACCTGCCCCCCAAAGATCTGACAGTAGTANAA  
GGAGATCCATTTTGAAGAAGGTATAATGGCAACC

## Sequence 1062

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTAACAATTTAAAAACAATTTTAAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTTAAATGAAGGCTGCTTTAAGAAGCTTTAA  
ATCCTCACGTAAACACCACCACTGCAAA<sup>g</sup>GTATTAATATCAACTTTTTCAACAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTANGAAAAATGAACA

## Sequence 1063

CCCTTCNAGCGGCCGCCCGGGCAGGTACACAAATTTCTAGGNAATCTAAATTTTAAAT  
GTCTAGAATTTTTTTCTTTTATGAACCANATCACATTTCTGGACATGCTAACCATTAAA  
ACGGNGAAGCTTCAGCTTGGTTGTTATTTCTCCATTAACTGTTTCAGAAACATTCAGGC  
GGCAGATAACTCATTTGGATTGTTAAGAAACACCAGGTTTTCCAGATGCTACATTAACAC  
CTCATAGAAGTGGTCTTTCATATGTATGTTATGNATGATGTNAACCATAATATATATGNN  
TAAATTTTAGTAGGAGTTATCCTTTGCTTTTTATAATTTCCAGTTTTNCGNNAACGTA  
ATTCTTTTTTCGGATTCATTTTTTAGGTAAAAATGGTCCCATTTANTTTAAAGGATAA  
AAATAAAGTCTTACTTTTGAGTCTTTTAAAGNCGTNNATTTTNGCCANTNNTGTTCCCGTT  
GGAACNAGAAAGGTNNTAAANCCNTAAATTTTTGGAAATTTAAACNGCCNTTTNAAAGNN  
ATGGAAGATTCTTCGACCACCNNGNTTTTANTAAAAAACNTAAANTNGAATCCNGAA  
NNAANGGGGGGGGNGGTACCCGNGGGNTTATTNAAACCTTTAGNANGNTTTTNTTTTNT  
TCTGGCTTTAAAAATTANTGGNNTTTTGCNNTAAGGGCCAGGAAACNTAGGGTTTTGGA  
AAAANCNAAAANTGGCCTTNGGGGGCTTNTTCNAAACCCGGGGCNCNCAAAAAANAAAAA  
AAAAAA

## Sequence 1064

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTACTACAAGCAGCAAAAGGAAGCTCTAGAA  
CAAGGAATTAACACAGTGTTTGTTCCTAATCGCAGAAGAGGCCATGAGCACCATATGTG  
TGTCAGGCTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTTCTTATGACTCTTA  
TAGGCTGCAATTTTCACTTGGCCATAAAACAATTAATATCTCACACCTAGTAGTATTCA  
GTGACACAGAAAGGGAAGAGAAAGGATGAAGAAAAAGAGGAAAGAGAAATTTNCCCA  
AGATACAAATTTAATATTCTTTCCAAAGCATAAGAACAATTAATAATATTTCTCTGNT  
GNAAGTGGAGGATGGA

## Sequence 1065

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTGAAACAATATAGTAGTCTTCCCTTTACAA  
AGCTGAATTAAGTAAAGTGTGTGTTGGGAATAATAGGGGAATGTGGATTGTAGCTGTT  
TAATAAAGATTTAGATACATATAAAATTGCTTAAGGCCAGGCGCTGTGGCTTACGCCTAT  
AATCCCAGCACTTTGGGAGGCTGANGTGGGTGGATCACCTGAGATCAGGAGTTCGAGACC  
ACCCTGTTCAACATGGTGAAACCCCATCTGTACCTGCCCGCGGCCGCTCGAAAGG

## Sequence 1066

CCCTTAGCGTGGTCGCGGGCGNGGTACCCACATGATCCCAAAGAGGAGGGGCCCTGTAGA  
AACAAGAACCAACCAACANAAAGCAGTGNCTACAGGCACCATGACAACAAAAGGAGTTTT  
AAAGTGCATCTTCAATAGCACACAATTTTCCAATTTAAATAGTTTGAATGAATCAAN  
GGGAANAAGCATTANTTAGATACAACCTGAATTTCTCAAAAGTATATTANCACAGCCTAC  
AAATAAATCCTTAAATGTA

## Sequence 1067

CCCTTAGCGGCCGCCCGGGCAGGTACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATG  
AATTTGCANAAGGATTAAATGTGTGTTCTTATTTGTGCTTTGTATTCTCCCATAAANTAG  
TGTGTTGGAGGCTATTAGAATAGCTGAGAGGGTAAACATAAACACATACGTANGAGCCT

Table 1

GACATAAACACATAGGTAGGAGCCTGCCATAAGCACCGTAGGTAAGAAGCTAAAAGGGTGT  
GTTTCCATTTTCANGNGGTCCAGNCCTTCCTTNCATACTCTNAGATGACAAAAACACAAAG  
TTGCTGGAGCTCACACAATAATGACTAAANCCAGAAAAGTTTGGACATGGAGAAACATTT  
TT

Sequence 1068

CCCTTAGCGTGGTCGCGGCCCGAGGTAATATTAGTGTAGCAATTTTCCAAAAGCCATT  
CATCTTAGAGGGCTAAATGATTTTACCTTATCAATTCCTCCTGTGAAAAATATCTCTAA  
AGAGGTTTTCTGCTGGAAAAATTGTTGCTGTACATTGATATGCCAACAAAAGCTAAGC  
AGGGAAGTCAGGCCAAGAAATATCTNCCTGCAAGAGAAGGCATCGCACATGTATCTCTCC  
ATGCTATTTAAAATTTGCATTCTGCAACATAGAAGGGATAGGCCATGCTGCAGAAGCCAG  
GTCCAGGAAAACTGCTTTCTTTGGCCNTTACACATCCTTTTTGGAGAAGATGCTGGTGAA  
AGCAGCAACTACCATCTGCCCTCCTGTTGACTTAAGTGCAACAGGTGGAAGGGANGAAGGA  
AGGGCATCGCAACATCATTCTATTATCTCAACCTTGCTTTTCTCGG

Sequence 1069

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTAAATTGTAGGGATGCTCTTGTCTG  
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTTCCAAAACATGGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAACTTTTCATGTTAAATTCTAGTTCTGACAA  
TGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATG  
GAATATGTGTTTCTTTTTTCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAAATAGATTG  
ATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATGCATTTTTCTTGGG  
GAAGTTTCCATGGTCAAATTTATTAGTCATTGCAAAACAGAAAAGTTTGACACCTGGAAA  
TGCAGACCCTTTTGCTT

Sequence 1070

CCCTTTGAGCGGCCGCGCCGGGCGAGGTACATTATATTAATGAAATTTATCTAGTCCTTGCA  
AAGTGTGCCTATTGATTTTCATTAGTGTAAGTAAAGAGAGAACTTCACACTGACATT  
TATAATTTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCAG  
GAAGTTCTTGAGGCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCA  
GCTACATTTTTGGAAAGANGGAGAATTAAGTTTTTGGTG

Sequence 1071

CCCTTAGCGTGGCCGCGGCCGAGGTACCAAACTGAAAAAGATTGTGTATCCAAACATT  
ATTTACATAAAATGTATTTTGATAAAGTAAATCCCAAACCATGGTGCTCAGAGGTTGT  
AACAGTCCATGTAAGTTGAAGAAAAAGAGTTATCAATCAATACGTGACTATCAATCATTT  
ATTTAATCATTATTTAGTTTTTACATATCTAGAAATTTAGTAGAAGAACCAGCCCTTCA  
TAAANGTGGCCATTCCCTATACCTGCCATCGATTACATTATTTTACT

Sequence 1072

CCCTTAGCGTGGTCGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT  
CACTCTTGTGCCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCC  
TCCCGGGTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGT  
GCCACCATGCCTGGTTAATTTTGTATTTTGTAGTAGAGACAGGGTTTCTCCATGTTGGTCC  
GGCTGGTCTCGAACTCCCGACTTCAGGTGATCCTCCTGCCTTGGCCTCCAAAAGTGTGAG  
GATTACAGGCGTGAGCCACCACGCCCTGCTTAAGTTTTAATAAGATCTCTTGGCAACTTT  
TTACGACTGGCAACTTAGGTCTCACAAACACAGAAAAGCTTGTCTTTAAGTATATTGTCT  
TTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTATAAATGCAT  
GCACTGAGAGAAAAGATATTTGAATGATATACACCACAATGTTAAATTAACCTGNGATTGT  
TTCTAAGTATTGGCACTATGGNCAATTTTCTTTTCTTGGTTATGCTTTTCTGAGTTTTC  
AAAC

Sequence 1073

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCACATAAAGGGCATTTTAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC  
CTATAGTCTTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTTACGTTTAGCC  
TGGGCAGCATAGTGAGACACTGTCTTTTATAAAAAACAACAGCAAAATGATCAGTTTGGG  
ATAGTAAGACAAATGGCTTTCTTTTGTAGGAATTTCTCTATTTAAAGGACTTTTAGGCC

Table 1

TAGAGTGGTGGCTTACGCTTGTAAATCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCA  
CTTGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTANGGAGACCCTGTCTTTNCAA  
AAAAATTCAAAAATTAGCCCACTGAGGGGGGNGCTTGCCTGNGGGTCTAGCCACCTGG  
GAAGGCTTGGGGGTGGGAANAATTACTTGGGCCCANGAATTTGANGGTGTAGTNGAGCCT  
TTGATNCCCGTNAACCGAGTANAAGACCCTTNTTTTNTTNAAAACTTTAAANTTNAAC  
NTTTTTTA

Sequence 1074

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATC  
AAGATCCGACTGCTAGGAGCCCCGGCTTCTCCCTGACCTGCCCGTCTCCTACACCCTCT  
GGTCTGCTCCCACTGGTCTAATAACTGGTGTCCACATTCCTCTAACGTGCACAACAC  
AGTCTGCCCCCGTGCTTTTACCTCCTGTCCATTCTCTTATAACG

Sequence 1075

GATATCTGCAGAATTCGCCCTTCGAGCGGCCCGCCGGGCAGGTAAGTCTTCAAAGAGGATA  
AACTTAAAGAAAATGACTAGATACACATCAAATTAAGCTGCTGAAAACCAAAACAAAGA  
AAAAATTTTTGAAAGCAGCTAGAAAAAATTACACACCACACAGAGGGGAATAAGGTTTA  
CATTACAAAGATTTTTACCAGAAATCAGAGAAGTGAAGGACAGCTAAATGGCATCATT  
GAGGTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATATCCTTTA  
GGAATGAAAGTAAATAAATACATTCTCAAAGAAAAACAAAGAGAATGTATCCCCAGCAG  
ACTGATCTGCTAGAAAAGCTAAGGTCAACATTAGGCTGAAAGGAAATGCTGCATCTTCAG  
GAATGAAGAAAGAGCAATAGAAACAATAAATATATAGGAAAACACAAAATAC

Sequence 1076

CCCTTTGAGCGGCCCGCCCGGGCAGGTAAGTCACTGATTTATGGCAAGTCAGCCAATCCA  
TCAGTGCTCAAAGCTCCTTGATTGTGTCAGGNATGNNTNNCATTATTTGTCACTCATTGAG  
AATTAAGTCCCACTAGTAGCATTTGTTTTGTGTCTGATAGATTCTTCATGCAGAAAGA  
ATAAGTAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCACTACTTTTTGCTGCA  
CAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATAACAAAATCCACAAATTCAGATT  
TAAAAAAGTAGGTCTATATAAGCCTTATTTAATATTTGGTATATTTTTAGGTACCTCA  
TTGGGNGNCCCTTATNATGCCAAGGCATTTTTGGGGATCCTGGGTTTCTTAATTAATA  
ATAGGAAGAAAATCTTAACATTCNCGTGGTGGATTAAGAAACNCCNCCCACCCTNTTTT  
TTGGATTAANGNGNTTATTAAGTAAAAGCTTACCGTTNAAGTAAGCTTCCCGAAAAGAA  
AATNTTTA

Sequence 1077

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTAACCATGACTTACTAGGTGTTATGATGA  
AGGTGTATGTGTGTATATGTGTGCATGCATGTAGATAAGTGTGTGCATTTGCACACAT  
AAGAGTTTAAAGCTGCTCCTGTCAATTATTGATGGTCAAAGGTTTCTTTTGGCTATTGCT  
GGAGCTTTAAGATTGTCTTGTAATTGTCTTTTTGTTGTTGAAAATTAAGGGTGTATA  
TTAAAGGTAGTTTTTACCAGATCTTATATGTGTGATAGCTCACGTCTGTAATCAGAAAC  
CTACTGTTTAATGGCCACCCAATTGCCATTAGCTTCCTAGAGGGTGATTAAATAAATAT  
CTCTTTTAAAACTCATTTAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTT  
TTCACACTAACCCCAAAGTCTGCTTGCATTTCTTTGTAGGCCTAACATTCATTTTAT  
ATGCATTGATTATTATTGTTGAACCTGCATTAATTACATCGNGCATATATGGACATACAA  
TGTCATCTGCAGAAATTAAGGATTTTTTA

Sequence 1078

GAATTGGGCCCTCTANATCNTTCTCNACCGGNCGCCANTGTGATAATTCTCCTNTAATNN  
GCCGCCCCGGGCGNGGTACAGACTTTNGTTCCTTTGCTTTTATTTTTTTTTTTTGCATN  
GATATGAATAGTTTCACTAATTCATTATGAGTCTGTAAACNTTCTTAAACTTTGTTT  
TATGGGATTATCAGAGTAACAAAATAATGATGCCCTTTATGGGACTATAAGTAACCTAA  
TGCTTTTCTTTCCCTATTTTATATCCCATATTTGGTGCAATAATTTAATTCA

Sequence 1079

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCTCACATTCATGGGGAGGAAAATCAGGGCC  
TGCTTTTAGATAGGAGATGTATCAAAGAATTTGTGGACATATTTAAATCAGAGCACTA  
CTCTTGATGTACCTGCCCGGGCGGCCCGCTCGAAAGGG

Sequence 1080

TAGGGAGTCGACCACGCGTCCGCTGCCTCGCCCAATGGGCTCATAAACAAAGTGGCCATG  
GTGGCAGGGATAGACTTTCTCAGCAACATGGACTTTCACTCACCAAGGCAGACCTGGCTA  
CAGCCACTGCTGAGTGCCCCATTTCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATG

Table 1

GATCATTCTTGGGTGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTT  
CCATCATGGAAGGGCAGAGGTTTCTCCTCCCTGGAATGGACACTCCAGATATGAGTTTG  
CCTATCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGATTCACGGAATGC

Sequence 1081

CCCTTAGCGTGGTCGCGGCCGAGGTACACCGATGTGGCTGACATTTGGCTGGAGTCTGCT  
AAGATGTTTTCTTATNCTGGATGGACGCAGACCTGTAACACCCTGTTTTTCATCTTCTCC  
ACCATATTTTTCATCAGCCGCCTCATTGTTTTCTTTCTGGATTTATATGGCAGCTG  
ATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATCTTCCTCAACCTACAGCTC  
ATGATCTTGCANGTCTTCACCTTTACTGGGGTTATTACATCTTGAAGATGCTCAACAAG  
ATGTATATTCATGAAGAGCATTCCAGGATGTGAANGAGTGATGACCAAGGATTATGAAAA  
GGAAGAGGAAGAAGGANNNAAGAAAGAAG

Sequence 1082

CCCTTCGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNGCTGGTTA  
ACAAATATTTTAATTCATTAATAAACTTAAAAATTCATGCTTAGTCTACACAAGTTT  
AAGTTACTTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATTAGTGGTCAGGANAATGT  
ATTTGGTGTANAAACCAATAAATCAAGCTATTATCGCCTTGTGAGTACCTCGGCCGCGA  
CCACGCTAAGGG

Sequence 1083

CCCTTCGCGCCGCCCGGGCAGGTACTGGGAAGTGCACTTGGACGAACAAAAATAAAAAA  
AAAAAAAAAAAAAAAAAATTAAAAAANGGAAAAAAAAAAAAAAAAAAAAAAAAAAT  
NNNTTGGAAAAAAGGAAACANNANNGCGGTTTTTAAATTTNAANCATTNN  
AAATTTTTTAAANNANNCNTTNAANNNTNNNTGAAATGTGANNTTNNNNNGAATNG  
ANCNTNNNTCTTNTNTGGNTGATTTTTTATGTGTTCAAATNGTTTTTTTANNGAANA  
AAAATTTTTTTTTNGAAGNTANACNTNNATTNAAANNATTTATNCNTNNTAAAAATTNN  
AANAATTTTAAATNNTTAATGGNNTTNAANTTTTAAATTT

Sequence 1084

CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTTCTGAAATGTCCCCGTGATTAAGTT  
GTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGACTT  
ANAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTCCTGTGTCC  
CACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAACCAAAATTAG  
GAATAAGGATTGAGAAGAAAACCTCAGCAAGGGTGATGAATGAGTTTCAGCTCATTGCTGG  
AGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAANGCTATTCCNGGGACCT  
TTTGAAG

Sequence 1085

CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTTTGGAGAAAAAAT  
TTATTCTACTTCTAGAATTTCACTACAAAGTGCTTAGTCTTGGTTTGGTAGATGAAG  
TGAAATCAAAATTGGATATTTGGAACATTAATATGGGAGCAGAGAATCTGTGGAATTAT  
TGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAAATTCCTAGCTCGACTTGATACTT  
CTTTTCAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATA  
AACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAATATATATAATGTGA  
AGTCCACTCTACAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAAAACCTTCGCTTAC  
TAAGGGCTTGCTTTGAGGAGACCAAGAAAGGAAGAAATTAAGAGGTACCTGNCCCGGGC  
GGNCCGNTCTAAAAGGGC

Sequence 1086

CCCTTCGAGCGGCCGCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTGGAGAC  
AGGGTCTCGCTCTATCACCTAACTGGAGTGCCTGTTGCAATCTCGGCTCACTGCAACC  
TTCACACCCAGGCTCAAGTGTAATCCTCCCGCTGAGTAGCTGGAACACACGTGCGC  
ACCACTAAACCCAGCTGTTTAACACCATTTTAACCCAAAACATTAAGAAAAATATAG  
GAACAGTAAGTAGATTCAATTTGTAAACAGACAAGCTTACAAGTTTTCTCAAATATGAAA  
GTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCA  
CAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATAT

Sequence 1087

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTAC  
CCAGAAGGGCAGACTTCAACCCAGAAACAACGTGAATTGTGATGGAGAGATGGGCTCTA  
GTATCTGAACAACGAAATTACTTATAGACTACTTTCTTTTCACAGAACAATGAGCTT

Table 1

TCTTGGCTTTTAAACAAAATTATCATTGAAAACACAAAATTAAGATCACCCATAATCCCA  
GCATTCAGAGGGTTAATCTTTTGTAAAATCCTTCCAAAAGTCTTAAATGTGTTTATAT  
GCCTTTTGGAAAAAAATTTATTTTATAATCATTNGGATTTACAGAAAATTGACAAAGA  
TAGTACCTCGGCNCGCGACCACGCTAANGGCGAATTCC

Sequence 1088

CCCTTNCNAGCGGCCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATCTTT  
TCATCATTGGAAGCAACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAAGTTATAAACTCTAGA  
GTGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACTTTAAATTAGCTACCTTGCT  
TCCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTAAGTTGCTATAAAGTATTGACTATT  
AGAAATGCTTGAACCTTGGTTACTGTGAGCCAAGTCGGTGCTCAAAGTATATTTATAGT  
CTCAATTATATAGTAATTTAAGTTCTGAAAAATAGGTTCTGGCTTTGCTATGGAATATT  
TTGNGAGTATTACTTTGGAA

Sequence 1089

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAA  
GGCAAATGAAATGATGTAATACAATGAACCTCCTCAGAAAATAAGCTCTGTAAATCTCAG  
ACTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAATGA  
TGGTAAATCCATGCATTAATCAAACCTAAAAACATGAAAAGGCCAAGCCAACCTACAAGAG  
AAATACAGTTGGCCCTTGAACAACACAGATTTGAACTACATGAGTGGGTGTAGCTGGGCC  
GCGACCACGCTAAGGGCGAAT

Sequence 1090

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTGCAGAAGAAGCTACCAAACAGCAAATAT  
GGAAATAGTCAGTTTTTTTTTTTTTAAAGCCTCAGTAGAAGAGTGACAGATTACACTGTC  
CTGTTTGGGGTGCCCCCTCCCCCTTNCGACCTAAGTGCTGCCAAGG

Sequence 1091

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTT  
AACTAGAAAGGGGTTTTTCGTTTGTGTTGTTTTAAAGGGTCCTTAGTGCCTCTTAC  
TCCCTTCTGTAAATCCTGTGTAAATGACAAAAGTGACAAATTGATCATTGTAAGTTC  
TAGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1092

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATCTAAAGTTGGGGTGGAAGGAAGG  
AGAAAAGGGGATTGATTTTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCT  
GTATAATCCTGTGAATATACTAAACATTGAGTTGTGCACCTTACATGAGTGAATTGTGT  
GGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAACGAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAGGTNCCTCGGCCGCGACCACNCTAAGG

Sequence 1093

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGTCACCTGTATCTTGATCACCAGAGAGCAC  
ACCAGCCTGGACAGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGG  
TTCCTTGCCATTGAAGAACTCTTAACCAGTTGCTGAATCTTTGGAATTCGAGTCGAGCC  
ACCAACAAGAACAATTTATCAACCCGCGTACATGCTAAGACTTCACCAGTCAAAGCGAA  
CTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACA  
GCGCAATCCTATTCTAGAGTCC

Sequence 1094

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATGCCAAAGACTTCGCCATAACTTTTCAAGT  
TAATTACACCTGCTACTGTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAG  
GGGTTGAGAAGACAAAACACTGTTAACTTCATTATACCTTTGACAAAGTAATATTATGTG  
ACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGATTCAATTTATGGGA  
CAATTTGTTATGTGATCTAACAATTTGGCATATAATCTAGAAAGCAGCTTTATGATCAA  
AATTGATTTTATATATACATATAAAT

Sequence 1095

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC  
TTCAAATAACATTTTTATTATATAAAATGTAAAAATCCAGCAAACAGAAATACGGA  
ATATATTTTCTGGGCTTTACATTTGTTGATTTTATTCGCGATCTTTTCAATACAAT  
TTACACCTCATCCCCATTTCCAGTCTGATTATACAAGNGCTAAGTGGCANAAAGGTCTG  
GAATAAATACATCAAAAAGAGAGGCAAGCTGTGAACTAAGTTGCA

Sequence 1096

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATCTGATACAAAATCTGAAAGAAAGAACAG  
TCTTGTAACTTTACATACTTGTAAGCAATTTCTCAAATTTGAGCTTACTTTCAAATA  
AAGTCTTACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCTGG  
CTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAGGCTGTCTTAAAA  
AAAGAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGG

Sequence 1097

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCTGCAGACATACTGAGTGTACCGTTGAA  
GAGAGTGGAGTGGCTTTGTAAAGAAGTTCAGGTACATGTCCAGGGGCCAGCCTCTGGG  
CCCAGTAACTCAGCTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGGCTGCCACGC  
CCATCTTTATCACCAGAATGAGGAACTCCTGGAAGTTAACTGCACCATCAGTGTGATAT  
CCAACCTTTGAACCAGACGTCTGCACCCTTTTCTGATATACTGAGGACACTCGGTCT  
CTAGCAATTTCTTCAGGTCATCC

Sequence 1098

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACCATTCCATACAATGGAATATTACCCGAT  
GAAAAATAAAGTTGAACACATGCTACAACATGGATGAACCTTTGCTTATAAGAACATTGA  
AAAGAAAAATGCCAAAAGAAAAATGAGTTTTAGCTCAAATTTTTTAAGAGGCCTAGCCTG  
CTCAAGATATCCTGTAAAAAANAAAAAATCTTCCCATATCTAAGGTGAAA  
ATAAAAAACATTTTTAAAGTTNAATATAAAAGAATGAAATAATTCAGGTCAAGTTTAT  
TATACAGAAATTATATTAATGGGTGG

Sequence 1099

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGAGGTCTCCATTAGTAGGTGGCC  
GGGATGAAGGCCGTGTTGGGGCTAAACCACACTCTGGAATTCGTACAGCAATTCCTCGC  
TGTGTGAACCTTGAGCAAGCCATTCACCTTTCTTAAGCCATTTCTTGATATTCACAGAG  
CCTCACCAAGTATTCAACGAGAACATGTAAGTGAATGCTTCACAAAATGCCTGTAAAT  
AATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTAATGTACCT  
CGGCCGCGACCACGCTAAG

Sequence 1100

GGGGNCCCGGGGAAAAATNATTTTGGGGGGGGGGNCCCCCCCCCTTTNCCTTTNANNA  
NNTTAAAGGGCCCNNTTGGGNCCCTTCCCGGAANGGCCCGGGGGCCCCCCCCGGCC  
C  
CCCAGGTTNGGTTTGGGANTGGGGGNANTTANTTTCTTTGGCCAAGGAAAAATTTCCCGC  
CCCCCTTTTTTCCGGAAGGCCGGGGGCCCGGCCCGCC

Sequence 1101

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTGGCTAGGAGCTGAGCTTATCACAACAA  
ACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAAATTATT  
CTGTAAATCTTGAAAACCTAAAAAATTTACGCAAGAAAAGACATCATTGTCTACTGTAA  
CATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGCCTTGGATGATACAATCA  
CAGCATCACAACCTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTC  
AAATCCCTCCACTCTCTTCAACTGCAACTCTGAATATTAAAGTGAATCAGGAGAGCCCA  
GAGGTCTTTGAATCATCTCTACAGAGAATGAAATTTCTTCTGTTTGGCTGATGGTT  
TGAGGACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCCAAAATCTGCTGTTGAACCT  
GTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGGATTTGGTGATTCT

Sequence 1102

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATTCCCCAT  
GTTTTCTTCTAGAAGTTTTACAGTTTTACGATCTACATTTTTGGTCTATGACCCATTTTG  
AGTTAAATTTGTGTAAGGTATGTTATACATGTGGAAGTTCATTTTTTGCATGTAAATA  
TCCAATTGTTTCAACACCATTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGC  
GCCTCAATTAAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTGTCTACTCTC  
TTTCATTGATCTGTATGTCTGTCCATTTCCAATACCACTGTCTTTATTACTGTAGTTTC  
ATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGGTTGGAAA  
TGCACAATTAGTATGCTAANATCAGAGCAATCTTGTGGTTCANAATGGTTTATGGGAGA  
AATATTAGCNCAGTGNNCTTACATGCCTCATTGATGATAACTGGAGCTTAATGTGAA

Sequence 1103

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAGTTGA  
CAAAAAATGGCATGAAAAGATCATGATTGGATTTCTTTAAACCTGCCCTTCTGTAAAA  
AATAGTTTATATATTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTCTAACATTCC

Table 1

CAGCAAATTTTGTGCTAAGACTATCACTGTTAAAGTGAAAATTACAGGGAAAAATGTG  
ATGAATATACCGTAACTCAAAATGTGATATTTCTTAAAATCACTCTTTATGCTTTAGG  
AACTGGTTGGTCTCCACTTTGATTATTAGTGTAAGAGCCTGAGTATACGTGGATTTCAT  
TGTAATAATTAACCTCTTGTCTTTACTTGGGGCACCGGGGCCCTGGAGGGCTTCCCTA  
CTTCCCCACTATGTTAACAGGTAAATNCTGATTTTATGCCTTTAGTTTGACTTATTTT  
ANCNAAATATTAGAAGTTATTGCTTTTAAATGTTTAAATGTGGGACTGAAATTTTCATCT  
TTTNNTTNAGAAATCTATGAAGTGATTCAAATAACGTGGGCCTAAAGGCCAAAGNGGGG  
TATTTTGGNAATTCTGAAATTGNTTTGGCATCTGGNCCAAAAACCTAAANTANTCCCCGT  
GGCCCTTTTTTTTTTTTTTTT

Sequence 1104

CCCTTTCGAGCGGNCGNCCGGGCAGGTCACTATAGGGCTCGAGCGGCCGCCGGGCAGG  
T

ACTTGCAATGTTTTGACATTAAGAGAGAGACTATACATTCACAGAGGTTGGGAGCTTCTG  
CTAGCCTGTTGTCCAAAACCTGCTTATAAAATTTAGCAACTAATTTTCACTTTTGACAAC  
TATTTAATTTCTAGAAAATAGGTTTATAAAGATTTTCTTAAAGTGTTATCTATCCTTCCA  
ATGACTTATTATAAAATTTAGAATGATTTCTATAGGGTGGAAAAATCTCCTTTAGTCAG  
AATTGAACAGTTTTCTATGAAGAATGTTACACCATGTAGAAACATGGGTACCTCGGCCG  
NGACCACGCTAAGGG

Sequence 1105

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCCGAGGNACT  
TTTTTTTTTTTTNTNTTTTTTTTTTATATGGCAATTTTATATTTATTTTTGCAATTC  
TTGGATAAAAACCATTTGAACAATGTTTGGTAAGNGTTATTCTCATAAAAACCTCTTTN  
AAAATGAAGGTTTTNTATTTTCCACAAAAGTTAA

Sequence 1106

CCCAATTGGGCCTTTNGATGCTGCTCGAGCGGCGCAGTGTGATGGATTCTGCAGAATTCG  
CCCTTAGCGTGGTTCGNNTTNGAGGTACNACCTGCATGGTGTATGCACACAGAGATTG  
AGAACCATTGTTCTGAATGCTGCTCCATTTGACAAAGTGCCTGATAATTTTTGAAAAGA  
GAAGCAAACAATGGCGTCTCTTTTATGTTCAAGCTTATAATGAAANTCTGTTTGTGAC  
TTATTAGGACTTTGAATTATTTCTTTATTAACCTCTGAGTTTTTGNATGTATTATTAT  
AA

Sequence 1107

GATATCTGCAGNNNTTCGCCCTTTCGAGCGGTTCGNCCGGGCAGNTTCNTGAGATGTTACA  
CTAGTATTTTGAAAAAGTATAAAATGTGGCCGGNCGTGGTGACACATGCCTGTAATCTC  
AGCCACTTGGGGAGGCCAAGGGCANGGAGAATCGCTTGAACCTGGGAGGGCGGAGGTT  
G

CAGTGAGCCAAGATGCAGCATTGCACTCCACCTGGGCAACAAGAGTGAAACTCTGTCTCA  
AGGGTAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTTTTTTGGG  
TCATTAGTTATTAATTTTACNCNAGTTAACACTTGAAAAATGAATGATATTTAAATCAT  
TGTACTTACTGAGAAGCAAGAACCAATGAGTGAGCCCAAAGGAGTCTACTACCCATACC  
TATTAAGGGTAGGGAAAGGGTTAAGT

Sequence 1108

CCCTTTCGAGCGGNCGTTNNGGCAGNTNCAATGAAATGTCTTTTAAAAAAGTTTGTGT  
AATTGTGTATGTAATTCTGACAGTAATTCAAAACACAAAATCACACATTTTCCCTAACTT  
CCCATGTTCTGGATCTGGGGACTGCAATATTACAGAAATATGCAAAAATAAGTTTAGTGC  
TCAGAGATAAATAATTTTNCCTTATTCAATGCATCAATGCGCAAAAATTTCAATTCAAAA  
AAGCCAACCACTGCTATATGCAATAAATAAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAATGTGTGGCACCGTGACATACNTGTGCATATGTGTATGCAAT  
GCCTATTTAAGAAAAAAGGTGTCTTGATGAAAATGATTTTGAAAAATAGTCACTGACACAC  
ATTATATACAAAACCTTTTATATAAAAAA

Sequence 1109

CCCTTAGCGTGGTTCGCGGCCGAGGTACATTTTGGGCCTTTAATCCCATCTAAACAATTTG  
CTGTTAACGAAACTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACC  
TATGATGAGTAAAGACACTAGATCTGCAGGTCCTAGTACAATCTATACATAAAAGGCCCTT  
CAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAAAGAAAAAACCCTTCT  
ACACATTTCTTTTATCTGCAATATGAGAAGGAATCCTTTCTAACTCTAATAACATA  
TTAACAAGAATTAAGAACACGATTGTCGGGGAACCTCAGATGTTGGCAAAGCTTAAAAATA

Table 1

AAAAACAAGGGCTGGGTGCAGTGGCTCANGCCTATAATCCCACACTTTGGGAGGCCGAN  
GCAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAGTGAGACCCC  
TATNCCTATCTTNTNCNAAAAATTTTAAAAATTAGCTGGGCCAGTGGTGGTGCCTGT  
AGCCCCAGCTACTTANGANGCTTAAATGGGGAGGATCCCTTGAGTNCAGGANTTTGAAA  
TTGCNTGAGCCTTTGATCAAACTTTACTTTAACCCTGGGGTGGACCANAACCAANGGGG  
TTTTAAAAAAGGGGAAAAAANANAAAAANGGGAGGTTTCCCCCTTGGGCC  
CCCCGGGGGNCCGGGGCCCCNGGNTTTTTTGAA

Sequence 1110

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCC  
AAAAGTGAATGCTTTTAAGAGCACCCAAAGTCAACTCTTGAGTGCTTTGCTGCTTATAAAT  
TTATTCCACCAGATACCCATANATCATCTCTCAAGTTCGAAGTTCACAGATCTCTAGA  
GCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCAAAAATCACCTTTGCTGCT  
CCAGTTCCTCAATAAGTTCCTCATCTCTGTTGGAGACCACCTCAACCTGGAGTTCATTGCC  
ATATCAAGATCGGCATTTTGGCAAAGCCATTACAGCAAGTCTCTAGGAAGTTGCAAACTTT  
CCCACATTTTCTGTCTTCTCTGCACCCTTCAAATATTTCAACCTCTTCTGCTACCT  
AAGTTCCAAAGGTACTCCACATTTTCAAGGTATGGTTACAGGAAGCAACCCGNTTNTACCG  
GTACCTGCCCNGGGCGGGCGNTCGAAGGGCGAATTCCAACACACTGGGCGGGCGTTACTA

Sequence 1111

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTATGTTTTAATTTTTGTAGAGAAGGGC  
TCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGACTCAGGTGAAGTGATCTGGCCA  
CCTCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACGCCAGCCTGNAGCCT  
ATTTTTATAAATGAAGTTTTATNGGAACATANCCATGCCTGGNCAATTACATACGCTAT  
GGCTTCGTATGCCATATAGCAACAGAATATATTAACATTTACTACCTGGCCCTTGGCAG  
AAAATGTTTTGACAGCTCCTGCTGNATAAACATAAAATCTGCCAAAAATGCTGATATTAC  
CCCACATGGAGAAACACTGGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACT  
ATCAAGAGAAATACACTCTGATTTTTTTTCTTATTCCCTTTCTTTTATTTCTTTTTTG  
AGACAAGGTCTTGGCTCCGNTGNCCAAGCTGGAATATGATGGNGCCATCATAGCTCACTA  
TAACCTCNGATTNCTGGGCTCAAGTGATCCTCTTGGCTTANNCTCCTGAGTAGCTGGGAC  
TATNGGCGTGGGCCGCCGCCACCCGGGCTAAATTT

Sequence 1112

GCGCTNGTGTTTCAATCCCTTACGCNCCGAGCCNTGNTGATGGTCTAACCAAATTTCTAG  
TNCCTGCTACAATGGGATGGCCTGGGGGATTAATGGAACTTTGCCGGGACCAACTTATGA  
TAAGTGGGAAAGCACTTTAGGGCTGATCCCATATANGTGGTGAACACTGCACTTNTGGCC  
AAATGGACACGGAGGATAANCACCATNTGACACTGGGGGTGGTNCAGTTGGAGCTCTGGA  
AGGAAAAGNCTTCTGGGGTGGATCTCTAACAATATTAATACCTCNGCCGACCCGCTAA  
GGCGAATTCAGCACACTTGCCGGCCGTTACTAGTGGATCGAGCTCGGTACCAAGCTTGG  
C

Sequence 1113

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTCTTTTTTTTTTTTGAGAC  
AGAGTCTCTCTGTCACTCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACC  
TCCACCTCCTGGGTTCAAGCAATTCTCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG  
GCAGGCACCACACACCCGGCTAATTTTGATTTTTAGTAGAAACGGGGTTTCTCCATGT  
TGGTCAGTCTGGTTTCAACTCCCAGCGTCAGGTATCTGCCTGCCTCGGCCCTCCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCCACTTCTGTATTTTTAAAAAGTGG  
TAAGATTTGAGTATTATACTGGGATAGAAGTGAAGTTGGGGGCTTAATTTGATCTATCAG  
CTTATTGAAAACAAGGACCTTTTAAAAAATGGTTTTGTTAGGTTGGAAGAAGTGAAGTT  
TTAATTCGTCATTTAANTTAGCCNAGTATGTTGATTTTTTTTGGNGAAAGNGTACCTG  
CCCCGGGCGGGCNGTTCGAAANGGG

Sequence 1114

CCCTTAGCGTGGTCGCGGCCGAGGTACCACANGGACCCAAGGACCTCTAGCTGTGTTTGG  
TGAGGCAGGTCTTTGTCAATTTAAGTAATCCTGTCAGATGGTGTACCAATCTTGTAATC  
ACGACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAGTTTTTTTA  
TATATACGTTCCATTTTCAGACAGGTGGTGGTTGAGTTGAATTTGCAAGTTGCAAGTG  
AAACATGGATCTCTTTTTATTTAACTCCCTTTTCTCTNCTAAGGTGCTTAATTTCCAT  
GCTTGACATCGTACCTGCCCGGGCGGCCGNTCGAAAGGGCGAA

Table 1

## Sequence 1115

GTACAGAAGGGTTTCACCATGTTACCCACACTGGTCTCAAACCTCCTGGTCTCAAGTGATC  
CATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACTTGAGCCACCGCACCCCTGTCCC  
ATCACTTTATATTTTCAAGAAGGTGGTGAGGGTGTGTTGGTGCCTGGGGTCTCTAGCTGA  
AGAAAAGGGAAATTTTTCTATCTCTGGTAATGTCTTTATGGATATAAACCTCAGTTAACT  
GGAATAGCTATGGAATGTATGCTTCTGGTTAACTAAAAATTAACCAGTAAACACTCTGTA  
NTAACCATACAGAAAATACTTCTGCTTTAAAAAAGTACCTGCCCNCGCGGGCCGCTCGA  
AAAGGG

## Sequence 1116

TNTCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCCGANGTACCATCCCAAGGACACAAG  
TTTCCAGGCAGCAGCCTNCAAGAATTTTGTAGAGATGTCCCATCACTTATGGCCTACAC  
TGTTACATCTGGACTCTGGATTGCAAGTGAAGGAAGAAAGTGAAGTGAAGAGAGAAAGT  
GGAACAAATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGTTAAG  
TGGAAATGCTGTTGCCATGGGAGTACCTGCCCGGGCGGCCGCTCGAAAGG

## Sequence 1117

TTTTAAANNCATTTTTTTTTNCAGGGGGNGAAAAAAGGGGGGGCCANTTTTC  
ANCTTGGAAAAATGGNNTTTTAAAAAATNAAAAAANAANTTTTCAAANCNNNAAAAAN  
NANNACCNCCTTTTTNAAAAATAAAAAAANNNCCCCCGGGGGGCGNTNAAAAACCTT  
TTTTTTTAAATTTTTTTAAAAAACCCNCCCNCCNCCATTTTTTAAAGNGGTTCTNTTTT  
NAAAAAATAANATTGGTTTTTAAAAAATTTCCCCCCCCNATTTTTTAAAAAN  
CCAATTTTTTTNTTTAAAAAAGCCGNNTTTTAAAAAAGNNGGGGATTTTTTCCA  
NNTTTAAAGGGGAAAAAAGGNTTTTTTTGGGNAAAAAAGNCCCCCCCCCA  
AAATTTTTGAAAAAANAAGGNTCNCCTTCCAGGNNTTTTAAAAAANAANAANT  
TTTCCCCCCCCAAAAAAGGGGGGGGTTTTTTTTTTTTTTTTTTNGNAAAA  
AAAAAAGGGGGGGGGCCCCCCCCGGGTTTTTTTTTAAAAAANAATTTTTT  
GGGGGGGGGGTTTTTTTTTTTTTNNCCCC

## Sequence 1118

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAA  
AAGTTGGCCAGCCCCAGGGAATAATTTTACTGTCTAAACAACCACAGACCAAGGGCC  
AAATCTGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAACCCAGGTCCATTGAT  
TTATCCATTGTCTACATACNCTTTAGGCTCGATGGCNCCTACTGTGTCTACAAAAANANG  
TTATCTAGACAAAAAGCCTAAATATTACCGTTTGCTCTTTATNGAAAAAGTTTGCCATT  
CCCTANTCTAAGGGTTANATTCTGACTTATCATGTTATCTACCCCCCCCCGNGTACCTG  
CCCGGGCGGCCGTTTNAAGGG

## Sequence 1119

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
AATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGTTGCCCATGTAAA  
TAGTTTTAACTGTAGAAAGTATTANAGAGATCCTTAGGGAATGATGCAAGTGCCATTG  
AGCTATTCATTTANAGAAAAAGTTTAAAAACATGCNGTCTAAAANGGAAGAGATNGAGGC  
CATTTGAAAAAATNTTCTTAAGATTAAACAGCTGGTTATCCCACTGGCTAAGTTCCGATGG  
TGNGGCANAAAGCACCGTNTTGGCTAAACAAAGNNGGAATGGCGTTTAAAAAATAGGAAA  
GGGCAAGGCTAAANATTTTGAAGTTAATCCTACTTGGGTGCAGGGAATAACATAGCTTAT  
TCTTCATGAAAGTNTTTTNTTCACTACCTAAACAGNTTATACATTTGCTTTTATCTG  
GAGGGATGAAAAACCAAANTTTTTTTTTTGCCCTTTAATCCTTAAATTGAACTAACT  
TTTTNTTTNGGGGTTGCCAAAAA

## Sequence 1120

CCCTTAGCGTGGTCGCGGCCCGAGGTACACACATCTTTTTGAGATCCTACCTTCAGTTCT  
TTTGAGTATATAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAAATTA  
TTGAGGAACCACTGTAGTTTTTATAGCAGCTGCACCATTTTACGTTCTACCAAGAGTG  
CACAAGGGTCCGAGGTTCCACATCCTCCCAACACTTGTTATTTCTGCTTTTTTTAG  
ATTGAGCCATCATAGTGGGTGTGAGGTGACATTTTATTGNGGTTTTGATTTGCATTTCC  
CTAATGAGGAGTGATGCTGAGCATCTTTTCTATGCTTACTGGTCATTTGTATGTTGTCT  
TTGGAAAAATGTCTATTCAAGTCCTTTGACTATTTTAAAAATTGGGTTATTAGAAGTTAT  
CGTTGGTGNTGACTTGTAGGAGTTNCTTTCTATATTCTGGATATTAATCCCCCTATCAGA  
TATATGATTTGCAAAATCTTCTCTTAATCCATAAGGGTACCTTTTCACTTTTGTGAA  
TGGGGTCTTTGATGNATAGAAAGNTTTTANGNTTGAANANCTAAATTATCNGGTTTTA

Table 1

CTTTTGGGGGGCTGGG

Sequence 1121

CCCTTAGCGTGGTCGCGTTCGAGGTACTTTNTTTTTTTTTTTTTTTTAAATATTTAGTAG  
AGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCGGGCTGAAAAAT  
AACCCTTTAGATATCTACAGCTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAG  
TCATTGGCATTAAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTAAATA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATTC  
TGGTCTCAATATGGTNGCTGCTCTTCTTATCAAATCTATAATAAACTATNTGACTATNA  
TATAGATTTTCAGGAGCTAAAAAAGCCTTATATTTTCAAAATTAAGAACNATTTTAATT  
TTGCNAAATCAATNAGCATTACTGAAGTTTAAGGAAATTTTGAATAAAATATATGGCAN  
TTANATNCCGCCTAAAAAGAATGNAATCTTAANGATTNCTTTTGGCTCAGGGGCNTAAA  
ATTCCA

Sequence 1122

NGCCCTTCGGNTTTCGGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCGGAGCTCGA  
CCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAGTTTAAAGAAGGAAGCTT  
ATCTAACACGTGGAATGAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1123

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCGGGCAGGTAC  
CTTTTATCCCTCAAAGGACCTTCTTGGGTTTTGAATGGAAGCCTTTATCCGGTTAAGA  
TGTTTTCTTTATTTGCCACTTCCATCTTTTTTTGTGGCCCTCGATCCTATTTTCCCTG  
ACTCCAGCTTGGTTGGCCCTTATAAACTTGTGCCCAAAAGATTGTGGATTAGACTTTC  
CGAGGACTTACCTGTCCTAGGGGAGTAGGCAAGCACTTCACTAGGGAGGGGGTGGGGGAA  
AGGAATGACACATGACATACATGGCATAACATTAAGCAGTTGATCATATGTCTGACTGG  
GTTCCAGTTTCTTGGGAATGTTGGGTCCCTTGTTTCAGGCTTGCATATTTTAACTAAAA  
ATTTCAAGTCTATTGTTTTAGTAACTTCATTTATANNCTCCATAACAAGTTAGAAGGA  
TGATCTGCTACCATTATTCTATAATTTTAAGAAAGNTGGGGCTTGACATTATACTCA  
TTTAGTGAGAGTANATGCCAAAAAAGTGGAGGGG

Sequence 1124

CCCTTTGANC GGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGTATGCTTAGGG  
TTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAATATTGACAATGAACTGCTTTGGT  
AGTGATTTGTGATTTTGTTTTTCTTGATTAGTAACCAACAGCACAGCCACCAAGAAAT  
ATGCACATGTGGGACCACGTCAAGCTGAAGCGTTTGTGCCCAACAAAGGAAACAATAAG  
AAAAATAAAAGGCACACTAAAAATTACAAGTTTGGGATAAGGGATTATTTTGAAGAGGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 1125

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAAAAGACACATTTAGATAAACTGAAGCAG  
ATTAAAGTGACTTTATAAGACAACATCTTTGTTTTATGTTTAAATTTCAAGTATGGTTAA  
GCACTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACAGAAACAA  
GTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATATGACTTACTAGGAGGGCTT  
AAGTTTTTTAAAAGAGATGAAAAATAAAGAGAAGGTCTAGTATTTTCTCCACATTCCA  
ACAGATCATTTTATGTGCCCCCTTTGGGTGAGCACATTCCATGTTGTAGACCATTGATCA  
TAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAANTATTTATTATTGGTGGTATGA  
CAAAAAAATTCATGAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA  
AA

Sequence 1126

CCCTTTGAGCGGGCCCGGGCAGGTACTTTACTGTTCTTTTAAACCTGGAGAAGCCTC  
TATGGCTTATTCCTTAGAAGCAACAAATGAAATGATGTATAAAGCATCAAGTCAAAGAT  
ACAGAGAAGTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTAAT  
ACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTAGGGATCCACCCGT  
GTTTCATAAAAGTGTCTTACACTCATGTTTGGCTTTCAAGAAGTGATATGCCTACTAAAG  
CTGTTATTTTGAAGTATCCCGCGTACCTCGGGCGGCGACACGCTAAGGGCGAATTCAG  
CACACTGGCGGNCG

Sequence 1127

CCCTTTGAGCGGGCCCGCNCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCT  
CCAATTCATTTAATTTGTTTCTTGTGTTGCTTTCCTCAAATATACAGTCCATCACC

Table 1

TTGGCTCAGTGCATGTCACCAAAAATTCTCCAGGGATTTTCATAGTCTCGGTGGTGTGGCT  
GGCCCAGGACTATCCATGCAGGGAGGCCTGCACCTNTGACAGTCCGGCTGCANCTGGGGGT  
GCCCATCTTNTGTGCTCTGTGGTACTNCTACACACATAAATTCAGGAAATGACTAGATGA  
GCCTGAGTTGGCTTTANTATTAATGTGCAAATACAGTTTTCTATACCAACAAACCC

Sequence 1128

CCCTTTCNNTNNTGCCGCCCGGGCAGGTACTATCGATTGGGTGCGGGGTGATCTATTATC  
ATTGAGTAGGGAACTTACTAGGNTAAATAGAAAGTATATANAATGTATTTGGTTATAGA  
TATGTGAAGGAAAAGGCATANTTATATGGTCATCCATGCTGGGGAATATTTNGNAGNTNT  
NTTTTGTGAGAGAAATNGNCAATNTTGGATCAATAGNATTAGACAAATATCTTGNGCAT  
CAAGAGACCTGGAAACATG

Sequence 1129

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAATCTT  
GGCTAGTGTAATTCAGTCTTTTGAATAAATGGAAAAATAAATTGTATGTTATTTTATA  
CAGAAAAAAGGCCTTAATATCATAAGGTTTTTTTATAGCCCTCAAACTGATTTTTTAA  
TGGAGGTAGGCAACTGAGAAAATAAGCATTTAAATTAGTTTTTACCCCAAGCCCCCAA  
AATTTTGCTTACAAAATTAGGTACCTCGGCCGCGACCACGCTAAGG

Sequence 1130

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTCCCTTT  
TTATN  
GNNANNNNAATTTTTNTNCNGGGGGGNTTAAAAATTTTTTTTTNNNNGNTTCCNNNTA  
NTNNATTTTAANGNNNGGNNNTNTTTNNCCCTTTGNTNTNGGCNAAAAAAAAAAAAAT  
TTTTTTNTTAAAAACCNTAAANGGCTTCCCTNAANANAAAAAANNATNTNTTTTTAA  
AAAAATAAGGNAAAAAANAATTTTT

Sequence 1131

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCCAGAGGGAGAGGCTAGCAGTATTTTTAA  
TTGGTTTCTAAATTTTTTATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAAT  
CTGAAAAACCAATCCTCAAAAGACCTCTCAATTAGAATCTTAAATGACAAATGTTTTCTT  
TATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTATCTGAAATAATAT  
TTTAAACCTATCATAAAATCTCTGCCTGGTAGAACAGCTGACTGTGGAAGGGTAAATGC  
AGAGAACCAGTCAATTGGGATCTCCCTTCTCTACTTTGTACTGAAATCTTGAACCTGTAGA  
ACATTACTTATCACTGTGCTCTTCTAATGGGGAAAAATAATAATAACACTTGCAGAGTA  
TTTTTTAAAAGTTTTAGCTTTAAAAAATAAAC

Sequence 1132

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCACATGGTGAAA  
GCAGGAGCAAGAGGGATAGAGGTGCCATACACTTTTAAACAATCCGATCTCACAAAGAGCT  
CACTCACTATTGCAAAGATAACTCCAAGCCGTGAGTGATTGGCTCCCATGACCTGAACAC  
CTCCCACCAGGTCTACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGG  
GATAAATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAAATCTCATGTCTTCTCA  
CATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTCTTAACTCATTCCGACT  
TTAACTCAAAATTCAAAGTTGGCCAGATGCAGTGGCTCACACCTATAATCCCAGCATTT  
TGG

Sequence 1133

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTGAACTACAGGTGT  
GAGCCACCATGCCTGGCTTAAACATTTGTTTTTAATTAGCCAGGCTTGGTGGCACACATC  
TGTAAGTCCCACCTACTCAGGAAGCTGAGGTGAGAGGATCACTTGAGCCCAGAAGTTCAA  
GGGGCAGTGATCACTCCATTGCACTCCAGCCTGGGTAACAGAGTGAGACCCTGTCTCGCC  
AAAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAACC AAAAGAAAGTAAGTATATTGA  
AAATTATTTGATAGCAATCGCAATTATTTTGGATAACTATTTTACATATTGTAAGCCAA  
CCAAATAGGGTCTTAAAAAGTTTCAAGACCAAATGATTCATGTTCTCTACTTCAGCCTAA  
AAAAAGTTAAAGAAATCTTCAATTACCAAAAGAACAGTTATTCTATANTTACAAAAAGA  
CTTGAAACTTTTACCTGAATGCATCTCTTTGTTACAAAACCTTTAAAGGAGGTAGGGG  
GAACCTCATTGATTCATCAATGCTGNCTGGTTTTTTAAACCA

Sequence 1134

AGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTTNANGAGCCTCTGGTTACGTTNNCTTGATATTTACTTTCTC  
ATCCTTCTCTTTCTTACCTTCTCTTTGACTCCTTATCTTCTATGCCAACCTCTCT

Table 1

AAAAAGTCAGTATGTAATATAGTTGCTCTTTTATTTAAAAAATTTTAAGATTGATATTTG  
CTTACTATCATGTTACGAGGCTTTTATTTATATGTGTATTACAAATATATTTGTTAACTAC  
TAGCAAATATTTTATGTAATAACTTCGCTATTTTATTTAAATCCTGTTTTTAAATCTG  
AAATGTCATTTTAAGTATAGGAGACAGGTGAAATTGTTCAAGGTTACTACTAAACCAGGG  
AATAAGGGAAGCTTAGATTCTTGGNCTTTTTTCAAAAAAGAAAAATTTTA

Sequence 1135

CATGCTCGAGCGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTC  
GCGGCCCGAGGTACAGAGGAAATGGGACTTTGCAATTATATTTTCTAAGTGGTCTGAAC  
TTGGTCTCACTACCCACATCACCTGGAATGGTTACCAGGCCTCAAAGGACTGCCCCACGG  
GCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTCTTATCTGGGAGGTCTTTACAGA  
TGCCACTGTTGAGGGCCCGAAGCTGAANAAAAGTGACTCCATCCTCAAGTAGCTCTTATC  
TTCTTTTGAACCAAGCCTTGCTGTTCTNNGGCCGCATTTGTGAATTTGGNCTGGAAGTN  
NNGGTTCTTTAAAAANAAAGNGATGGGGTCTTTTAAAGTAATTGAAATAAGGTGTTTG  
ATGGTGTTAATTGGGTGATGATGTACCTNNGNGCNGNCTGGATAAAAGC

Sequence 1136

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGATGAAGATGTGTTAAATATCTCAGCAGA  
GGAGTGTATTAGATAAATGGAATTATGATATATATGATATACAACTTTTTTCTATTTAA  
AAATATATTAATGGATCAACTTTAAATTTGTTAGTTGCCAGTGATCTTTTTTGAAAAACA  
AAAAATGGGGCATTTGTTGATTTATTTATTTCCGCTCTCTAATTAGTTACCTCAGTTTGAT  
TGAAGCCAGTGAAGTTGTGCTTTTCTCTACTTCTACTTCTCTCCCGACCTTTTCTG  
CCAGTGTAGGGTGTATTCTTAAATTGACACAGGGGGAGGATTCTTTCACATATNACTCA  
GCTACCTCCCAATCTGGGGGAGTTTTTCTTACAACTTGATACCAGATCCATTAATTTTAC  
ATTCTGAATAAAGGCCTAGTA

Sequence 1137

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAACCTTGGCTCACCGCAACCTCCGCCTCCCG  
GGTTGAAGCGATTCTCCTGTCTCAGCTCCCCAGTAGCTGGGATTACAGGTGTGCACCAC  
CACGTCCCTGCTAATTTTTGTGTTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGACTG  
GTCTTGAACCTCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAAAGTGCTGGGATTA  
CAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTTTCTTAACATTAGCAACTGCATTT  
TGATTCTGACAACCTGTCACAACATTTTGGGCCAGGTAACCTTTTGGTGGCTTGTGCCCTGT  
AAGATTTTAGCAGCATCCCCGGCTTCTACCCACTAGATGTCAATAACATCC

Sequence 1138

CCCTTAGCGTGGTTCGCGGCCCGAGGTACAAACAGAACAGTCTCAGTTTTTCAAGTGAAC  
ATTTCAAAAAATATATATGCTGCAATCTAATAATTAAGGAATTTTACCTATTATGAAA  
CATATTACATTTTTTAAGTTAGATAATCANGTTTCAAAAGGAGTATTCAGGTTATTTAAC  
TTTGTTTTTAAATGGCTGCATCAGAAAAAATGTCTATTTTTTTTTTATTTAAATATTTCA  
TCACTTGTTAAACATATTTTGATCTGAGTTTGGTAAAAAGTATTATTTTACCTGCTGTT  
GCCCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1139

CCCTTAGCGTGGTTCGCGGCCCGAGGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGG  
AAAAGGTCAGGTTAGCATGTTTTAGAACTATTGGTAAACTATAATTCATGGGACATTATA  
TAATCAAAAGATTAATATTTTAAGCACTAAGTTATAAAGGGTTTACACCCATGAATAAAA  
AGATTACCATCACTTACTATGAACCACTTCCATGAATCCATGTAGCTGAACACTCCTA  
ATGAAAAGTTTAATTATCCTTCAACCTGTAGTTGAAGAAGTCAAGTTCATGTTTCATTGACA  
GATTTCCATTACAGACCCACTATATTGATGTTACTTTCTTTGACACTATATTTTATATAG  
GATATATTTAAATTTGAAAACCTAATGCTGTTTAGAAGGCTATTAATACTATTAATTTT  
TGAAAGCTTTGAGTTTTCTGAAAAGGCTTTTAAGATCAAAATTTCTGAAACACTCCACAC  
ATTCTTCTCACCCACATTTA

Sequence 1140

CCCTTAGCGTGGTTCGCGGCCCGAGGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGT  
AGGTGGAGGGTAGCCAGGAGGGCTTGGGGTGGGTGATCACCTCACAATTTTGAGATGGGG  
TTTTATTTTGCAGATTCATGCATTGATCACAGGCCCATTTGACACTCCTTATGAAGGGGG  
TTTCTTCTGTTTCGTGTTTCGGTGTCCGCCCGACTATCCCATCCACCCACCTCGGGTCAA  
ACTGATGACAACGGGCAATAACACAGTGAGGTTTAAACCCCAACTTCTACCGCAATGGGAA  
AGTCTGCTTGAGTATTCTAGGGTAAGAGGAGACTTTTAAAGTAGCCAAGTCCGGTTGTAA  
GCAGATAATTACTCTAGGTACAGCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAAC

Table 1

ACAGAAAATGATTGAGTGACTCTTCTCAAATCTCCTTCAGGATGGTATGTGACTAGTATC  
ATTCTAGATGCANAGGGGGAGAAAGTTAATTTATTACAGTGGTAACCTTTAGAAGTGGTCN  
CTTAAGANTGTGGGCCCTGAACCATCTGGGGAACCTGTAGCCCAGCCNGTTTCTGGGGCC  
CTTATCTTAGACCTACAAAAAGAACTTTGGGGGTTGGGG

Sequence 1141

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTNTTTTTTTTTTTGACGGAGTNTGGCTC  
TCTTGCCCAGNATGGAGTGAAGTGGCACGATCTCGGCTTACTGAACCTCCACCTCCTAGG  
TTCAAGCAATTCTCCTGCCTNAGNCTNCTGAGNAGTGGGGATTACAGGTGCCCGCCACCA  
TGTCTGGCTAATTTTTGTGNTATAGTANAGACGGGGNTTACCATGTTGGCCAAGGCTG  
GTCTTGAACCTCCTGACCTNANATGATCCACCTGCCCTGACCTCCNACAGTGCTGGGATTA  
CAGGCATAGCCACCGAGCCNGACNAGGGCNNTTTANCAAGGAAAACGTGTGGAATGAAT  
GGCTGTTGGTGTGCANANAANTNATACTGTGNTACATGTTGTGAAACCTGAANTTTNTTT  
GNTNNGAATTTNGTATGANGAATGANNNNCGGACNCAANCACCCNTAAGGGGNGAAATTNC  
AGACANANTGGACGGGCNGTTACNTATNGGGATCNNNATNTTNGGTAAACAAAANNTNAGG  
CTGNANTACNTGGTGNAANGGTCATGTTACATTGNTGNAAAGTTGGTAATCNCANTTCA  
NNATTTNTANANANCATACTANNNNNGNGGCTTGTTTTGGNNANAGGAGGGGGGGGGGCC  
AAACCCCCCNCCCCNCCCCCNNTTNNCCCCCCCC

Sequence 1142

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATTAGCAACTGTGATGATGATGATTGTGAA  
TCTTATTTTCATATCTTGGGTTTCTTACAGTGAAATATTTGTTGTGTTATTTCTTTGT  
AAAAATAAACCATGTTTGCATCTTGGTCTTCTTCCATTGGATTCAAAGTTNTATAGT  
GATTCCTCCTAGTAAATTGCATTTTCTCCCTAGGAGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 1143

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTACACACATATATGCATATATGGTATAATG  
TATCAATATTTACAGAGACCATAGTAAACACAGCACAAAACCAGGCATTAAGAGATGCAT  
GGGAAATAGCATTTAAATGGTAAATATGGTAAAGATTGTTTTATGGTTTTTGGGTTTTTT  
TTTTTAATGATCATATTTTAAATGTTACTTTAAATAGATTAGTGAATGTGATTCAT  
T

Sequence 1144

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTATAAGTAGNTGGTTTGTATGANATGGTTAA  
AAAGGCCAAAGATAAAAGGTTTCTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATT  
TTTTNGGCCTGTTGATGTATGTGTGAAACAATGTTGCCAACAATAAACAGGAATTTTA  
TTTTGCTG

Sequence 1145

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCT  
TATAAACACATTGAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAAA  
AATTAACGAAAAATAAGTAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGNT  
CGAAAGGG

Sequence 1146

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTT  
CTGTGGAGTTCTTTTCAAAGAGATTTCAAAGCCACAAAGTTAGATAAGGCCAAGAAGTAAG  
GCCAGAGTGAGATCGAAGTAGGCCCTTCTTTTAAAAAATAATAGCTTTTATTTTATGTCA  
GTATCTTCTTTACAAATCTAACCTTCCCTTTTACGCTTTTTGAAAAAGATAGCTAAAATT  
CAGTGTGTTCTCTTATTATAAAGGATTGGGCTAATAGTTAAGCATTTCAAACATTTCA  
GTTTCGTTAATCAGAAGCTGCAAGTGGGTTTGTGTTTATAGCCAGTTTGCTTTTAAATTTG  
GCCATGTGGGCTTTAAGTTCAACGTATTTGTGTTCTCTTATNGTTACTCTCTCCAGAAG  
TATTACCCAACTGTGAAGTTGTGGTTATGGGGATGGCAAACATTCATTCTATTTCGGAGG  
AGTTTTCAAGTCTINTGCGGTTGCTGTGCACTCAGAATGCCANATCCCGGGAAGTAAGTC  
CTT

Sequence 1147

AGCGGCCGCCCGGGCAGGTACATCTGTCAAAAATCATATTTATGTGAGATGTGTCAATAC  
TANACTTGTGTNATTNATGCTACTTAGAANGANGATAAAAAATATCCTGTTTGGCTCCAA  
AAAAAAGAAAAGTCAGCCCTCCTGCACGAGTNGGAGCTGCAACCCCTTANAATTGATAA  
TCACAAACCCCTNAGACCCANAGTAAATAAAAAAAAGATATGTNACATTAGGCATTGA  
TGGAAAAGGACTAGATCCTAGTATAAGCATCCTAATAAAAGGAGAGGTTNAAAGACGCTC

Table 1

TCCAGAACCAGNNTTNCAGACTTTNTATGATAANCTAAATGTGCCANTCCTCGGCCNNTG  
ACCACNCTAAGGGG

Sequence 1148

CCCTTAGCGGCCGCCGGGCAGGTACTATTGAACCAACAGGATATCTTTTTATTATTG  
CATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTATAAAACATCTTTCCAGTGT  
TCTAATTGATGGAGATGCGGATCACTCATCTATAAAAAATGACTTACAGCTTCAGCTTAA  
TCAGTTGCTATAATGTGAAAACAGGAATGTGTATTTTTTCACTAGGTAAGGTGCAT  
ATAATTTGAATTGTTAAATGTTTTATTAATGAACAAAGTAAACCTTTTAGTAATTTTTAA  
ATTACTGGTCTTAGGTGTTTGAACAAGGTAAAGTATACATTCCAGTTTTGCCCAAAAG  
TCACTTAAATATCTACAAATTTTAACTGTGTGTGGTAACACCATTATTGCTCCAAT  
TTCTGGAAAGAGTCTATTTTCAAAGTTTAAAAAGAGGAAAAACAGCAAAGTGGCTAAC  
TTTGCAGTGGAAAGAAAAAGTGTCTTCATGGGTACACTTTCATATTTTTATGCAGCAT  
TAAGTTATCTACCGTTATGGGGGAAGTTGGGGTTT

Sequence 1149

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTGTTCTTNTTACANNTNTTACTGTCTCA  
GNTATAATTTTGAATGGCGGTTTNCNACTNGCCTGNCCNNACCCNNNTGTNTCATAAN  
TAATCTACGTAAACAAGTTAAAAAGGTAAATGNAATGTGATNAATACTTGNGGACAACC  
TGGTCATAATTTANAATCTCAAGGCTATATTAAATAATACATATTTCAATTATNGGGTAT  
TTTCCAATANAATGTATTGGAGGAAAAGCTTTCCANAAAAAAGNGTAACCTTTTAAAN  
AAGNGAATNANNNTTGTCTAATTCAAAAGCTTATTTAAAGGTTATGTGTAAAACACGG  
TNAAGAACCNTNAAATAAAGAAAGATNTAANATAAAACGTTACCAAAAATAAAGTG

Sequence 1150

CCCTTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTAA  
CAAAAATAATAGNGNAGAAGCTGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGG  
GAGGCCAACTCAGGAGGATTGCTTTAGGCGAGGAGTTGAANACCAGCCTGGGCAACAAAA  
AACAAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTACTTGACAGGCT  
GANATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTGCAGTGAGCCATGATCTCCCCA  
TTGCACTTCCANCCTGNATGCCAGAGCAAGACACAGTNTCAANAAAAAAGAAAAACNCA  
ANAGAGGTGGAAGGGCTCANCAAGTGCTTCCACATTGCGATTCCCTTAAATCGGGAAT  
GCTCTAAAGCTAGAGGACTTTTA

Sequence 1151

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT  
TTTTTTTTTTGAGACGGAATCTTGCTCTGTCAACCCAGGCTGGAGTGCAATGGTGCGGTCT  
CAGCTGACTGCAACCTCCGCCTCCTGGGTTGAGATTCTCCTGCCTCANCCTCCCAAGTA  
GCTGGGACTACAGGCACCCACCACACCTGGCTAATTTTTTTGTATTTTTAGTAAAGA  
CGGGGTTTCACTATGTTGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACC  
TTGGCCTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCAC  
TGCTGCCTCCCTCCCAACATTTCCAAGGGACTGTCATTGCCTTAAGTTATTTTTTCTGTT  
NAGNTTTTTTTTTGGCGTTTTNTTTTTTTTTNAAACAGCGTATTAATCTNTCGCCAAAG  
GCTTGAAATCANTNGCCCAAATTAAGCNTTGTGNAGCCTTGAACCTTCTGGGCTTA  
AGCAAAATCCTNTTACCTTNAGNAAANTNGNGACTACNGGGCCCATGCCACCACGCTTG  
GGCCTTTAAATTAATTTNTGGGTAACAAAAAAAACCTTAAGCCCTANGNAAANCTTTG  
GTTTAAAAATNACAAGAGGGACTTNNATNTTNCATTNATACAAATGGAAAAATTAANTT  
TCNTCNTTANNANGANAAAGGAAAAAAAAAAAAAN

Sequence 1152

CCCTATCGAGCGGCCGCCGGGCAGGTACAAGCAAGACTTTCTTTAATATTGATAAAGA  
ATTGAGTATCATGTATGCATTCCCTTTTATGATATACAATTAATTGAAGTTATTTCCCCT  
TGTATGCAACCATCCACATTTTTCTTCTGACCTTTTCTCAAGTCTTACAACACTTTTA  
ATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTTGCCTTATAATGGNGTTTTT  
CCATTTTTATCTTTGATTGNGCAAGGGGTTTGGAAGTATTATTTAGTCATTATATGATT  
CCTCTAAAAATTGTTCAATANAATATATATTCATTTATTCACCTTACTTATTGTTTATTT  
ATTGCCTTAGAGTATACCCAAACACNGGAGGATTCAATAATGATCAAGACAGGTCTAATT  
TCTGTCCCAAANGAGCTTAAATATGNGAATTAGAAAAGGAATTTT

Sequence 1153

CCCTTAGCGTGGTCGCGGCCGAGGTACTACATAGAAAGGGCTTGAAGTCTGATTCAGGA  
AAGGAAATCAGGAAAGAACAAAGGAAATGAAGGAAGAATAAAAAAGAGAAGTCATTG

Table 1

AAAAAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAAAAATAC  
AACCCAGGTTTTCTGCCCTCATTCTATAGAGTCTTGAGAATTGTAGGGTGTAAAGAAATAA  
AGAATCAAGTCTGAGAGATCCCTTTTGTCTTTCTTGTCTCACTGATCTGGAACCCAGG  
TTGCCAGCTGGCTATTCACAGGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1154

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTCAACTATCACTTGTCAATTTGTCTAGGAAGGT  
AAAAACAGGAAGTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTCATTTGTAAGTCAC  
TTGCTTGGAATTTAGAATGCTTCTCCCTCTGCAGAGACAGCTTCCATATGGTGATTAGT  
ATCCAGTCAGCCCACAGAAGTTATTCAGTCTGTTGCTATAGATGAAATTATCCTTATTTT  
TACTTCCCCTTCGAATAGACCACCTACTGTTTCTTCTGAGTGTGGTCTTTTTCTTTTCTC  
CTATTCCCTCCTCAATCCTCTTTTTTTTTTTTTTTTTTCTGAGTTTCTTCAATTATCTC  
TAATTTCTTCTGGCTCAAAATACTTCAAGTTCTATTGNGGTAGCCTAGATTAGGGACT  
AGTTTGG

Sequence 1155

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGA  
GGGCCAAGGCTCAGTCACTCCTTGATGGCTCCTAAATCTCCCGTGGCAACAGGTCCA  
GGAGAGGCCCATGGAGCAGTCTCTTCCATGGAGTAAGAAGGAAGGGAGCATGTACTTGGC  
CTTACTTTGTAGCCTTTCATCAGGGTTTGTGAAGATGGCGGTATATAGGCTGAGCAAGG  
GTGGTGAGGTTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAG  
CCCCGCTCCTGCCCGGGCGGCCGCTCGAAGGGCGA

Sequence 1156

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGCATTTTTGTATTGCTATTAAGAAATA  
CCTGAGACTGAGTAATTTACAAAGAGTAGAGATTTAAATGGTCAAGGTTCTGCGGGCTTT  
ACAGGAAGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCCTCAGGAAGCTCTTAAT  
CATGGCAGAAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGCAGGAACAAGAGAGA  
GAAAGGAGATGTACATATACATTATGTAATTAAGGCGTGCATGTGTATGATTAAAAA  
TAATGGTATATAAACAAATACAATATATACAATAAAACACCTAAACGCANAGGCTGCTTG  
TTATCCACAATANTAATACCAATAG

Sequence 1157

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTT  
TTGGGGCAGAAAGCATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTCAGAGGAGGG  
AGTGAGCAGTTGGGGTCTGCGTGACTCGCTTTCGTGCTTAATCTACTGGTGGTTCGAGCT  
GGCTGCATCACAAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGG  
TGGGAGAGCCTTCCATCAGGGACATACTTTAGGTTGCAAATTGACTGTTGTCTCTTGAGG  
CAATCTCCTTGTGGGAGAGAGTTTCTGCCCTGGAGCTTCAAAAGTAAGCACGTAGTTAGA  
TAAGCTTCCAGTGATNNTGAGTGTCTGGTGAAAGGGAAGGTAAGGTTATGATTGCATTT  
TCTGAAAGAGCTAAGGTANGGAAATGGGGAACATAAAAAAAAAAAAAAAAAAAGTC

Sequence 1158

GAGAAGGCTTCATTAANGGAATCTCACTGNGAATATCTCCTGAGAGATGGACAATGAAAT  
ATCAGNNGGNGGATATGNGTGATAAGCTGATTTCAATATTGAAGTATNGAAATAAAATAT  
TCTTTACACCTGAAAAAAAAAAAAAAAAAAGNACCTGCCCGGGCGGCCGNCNGAAAG  
GGCGAATNCCAGCACACNNGCGGCCGGNACNAGNGANCCGAGCTCGGNACCAAGCNNG  
G

CGGAANCANGGCATAGCNGNNCCTGGGGGAAAANGGNAN

Sequence 1159

CCCTTTGAGCGGCCGCCCGGGCAGGTACACCAGCCTGGCGACAAGAGCGAAACTCCATC  
ACACACACAAAAAATTAATTAATAAATAAATAAACATTGGTCAAAAAATATAAGCTGTATC  
AACTGTATATAAATAATTCAATTAATAATATCATGCATAAAATCTGGGTGTAATAAAAAACA  
AAGAATAATTTTTTAAACCCAAAGCAAGGCAAGGGGTGATGTTACCAAAGTCCATGT  
ATCAGAGATGTGATTAGAAGGAAATCCTTCAAGGGGAGCTTATTTATGGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 1160

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGATTACAGATATGAACTACCGTGCTCCCTG  
ATACCTGAAATATTTATCAAAATTTTTCACTGCTATTTTCTCATAGGATTAAAGGGCT  
ATTTATTATTTTTATACTACAGCTGACCCTTGAACAACATAGGGGTAAAGGTGCAGA  
TCCCCCGTGCAGTAAAAAAAAAAAAATCATAAAAAATTTAGATTCCAGAAAACTTGAC

Table 1

TATTAATAGCCTACTGTTGACCGGAAGCCTTACAAACAGTTAATACACATTTTGTATGTT  
GNATGTATTATATAATGTACCTGCCGGGCGGCCGCTCAAAGGGCGA

Sequence 1161

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAA  
TCCTGTAAGCCCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCA  
GGGTTTCATCTGAAGATTCGAATGAAAAGAAATGCATGTTTCTGCTCTTCCCTCATTA  
TTGCTTTTAATTCAAAAAAAAAAAAAAAAAAAAAGTACCAGTCTCACATTTGGCCAA  
ACCTCAGGATTCTCCCTCTGCCTGTCTTACTTCATGGTACCTGCCCGGGCGGCCGCTCAA  
AGGG

Sequence 1162

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGTAGTGGAGAGCTGGAATGTGA  
ATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCAA  
AGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGGC  
TGAGTCTTAACCTCTCTGAGCCTTTGCTGTTTCATCTGTAAAGTGGTCTCTGACAGCT  
GCCTCCTAGGGTGTGTTTGAGGATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTAC  
CTGCCCGGGCGGCCGCTCAAAGGGCNAATTC

Sequence 1163

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTCACCCTCTGAAATTACTAAGCAGGCTG  
TGGGGTGGTGCTCTGAAACTAGGTAGAAGTCTCACCCTTCAACAAACCTTTACCAGTGG  
TTTAGCATGCAGAAGATTCTGGCCTGAACAGTTACTACTACAGAGGCTGCAAAATGAT  
GATTTTTTCATTCACTCTTNGTAAATACCCGGTATTTTTCACAGGATGAATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCA

Sequence 1164

ACTTTNTTTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCTGTCACCTAGGC  
TGGAGTGCAGGCAACAGGCCAAGACCCTGTCTCCAAAAAGAAAAAAGGAATAATTCTAA  
AAGACTTATATTGATTTTTTCCCAATTAACATTAAACGCCTCCACCTGCCCGTGGGAA  
ATTGGGTTGGCATGTCACCTGAAAGGCAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1165

CCCTTAGCGGCCGCGGCCGAGGTACAAACTTTCTTCAGTTCTAATTTCTAAGATGTTTT  
ACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTATAGCAGTATCTAATTGTTTT  
TCATAACTAGCCAAATTCAGAAATGTCTGGATATATTTCTGGACAATGTAGATGCTGAT  
ATCCTTGGATTTAGGTTATACTGACTTTTATCTTTACCAAAACCATATTAACATTGCAAT  
TTATAATTGGAATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC  
AACCAACAATACTTTTATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1166

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAA  
GCACTATAACATAATTGTTGNCCATGATACTGAAGCTTTTCCCCTCACTTNTAGGTTGTT  
TACATTCAGAGCTCTATCAATAAGANGAATACATATTACAGTGAATTCGACAACCGCACA  
AGTNGGCAGTNGGTATCCCCAACCTAATTTATCTTGGTAAATTCACCCTGTTTCCTAGTG  
CTGNTGGATAAAAAGAGTGTTTACTTTTTATTGCTNTTAGACAGAGTAGNCTANATAANTT  
TTCAATTTATCAACATANCCTAGACTTCTGTAAGTGGAAATGNTCATTAGTAACTCATCTT  
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GGCAAAAGGCCNAGTATTTNTGGTATTCCATTAATAACCAGCTTTTGAAATTTATGTG  
TTTGGATTANTGCCCTCTGGGTACCNAAGTATTGACTCTGNTTAGTTTGGCACCTTTTC  
CGGNCTTAACANAAAAATNGNAATTTGGTTAATTCCTTAAANATTNGGTNGNANCTAGT  
NGANNGGAGGTNATNNCCTAGGAANTTTACNAAGAANNNTNGNNACTTGCCCNNGGCGNNG  
CGNTTTNAAANGGGCGNNTTCCANCAAANTTGGCGGGCGTTACTAAGTGGGNTCNCNNCC  
NTCGGGACCCGAGCTTGGNCGTATTNTTGGGGAGNACCCCTCCCNCCCCNCNTTTT  
TGGAATAGAAATTCCCCCC

Sequence 1167

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTGTCTTCTAATTTTTAAATTTATTAATG  
TCTTCTATTTTTCTAAGGCTGATTTTTCTAATGTCTGTATTTTCTTTTTTTCACATC  
TTGACATAAGTAGAGTTCATTTATTTTCAATTTATTCTTGATAATAAAATTAATTAAGGT  
TAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAATCTCAATGTTGTATGTC  
ATCTACTTCAAAATTTCAAGCTTCCCTTTAAATACTGTTTAAAAAATTTATGAAACC

Table 1

AGTATTTCTCTCAACCCTTNGTGTAATACCTGGTTTTACTTTAAATGTGGTCAAGATAAT  
TTAACCTGT  
Sequence 1168  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCAGGGATATACAAAGGTGAAAAGAAACCT  
GAAATATTTGTTGATGGCTGGAATATTTATTTTTTTGATCAAATAGATGAACTGCCTACC  
TATTGGTCAGAATGTGGAAAAATACAGAATCTGTTGGGCAGTTATGGTTGGGCCCTTCTT  
CGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCAGGAGAAAAAGT  
CTGCTTACAACCTTTAAGAAACAGTGGACCTCAAATACATTGTTATTGAAGATCCCTTT  
GATTTGAATCATAATCTCGGAGCTGGATTATCAAGGAAAAATGACAAATTTTATAATGAA  
GCTTTTATCAATGGTAGAAGAAGTATTTGGGATTTCTGGTCAAGGGGATTTCAAANGAC  
TACCCCTCAA  
Sequence 1169  
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAAACAAAGCAACTCTTAA  
ACACCAGCTGGCAAATGATAGGGCTTTTCCTTTGAATTANTCACCACAGGTGTGAAAGA  
CAGAATGACTAATCCATCTGATTAAACATANACCTTTTAGAAATCAATAACCTTATTTAC  
ACAGATGACAACCTGCTACTGTTCCAAGGTCCTAATCATGGTTCAGTTCTCAGGGCCCTCA  
AGTCTTTTTCCATTCCATCNCANAGTANTACCTGCCCCGGCGGCCGCTCGAAA  
Sequence 1170  
CCCTTAGCGTGGTCGCGGCCGAGGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGT  
CTATTTTGTGGTTTTCGGAACTGAGGCCATGATTAANAGGGCGGCCGGGGGTGGCTATT  
GTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCC  
ACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTANAATGCTTGGGAAATAGTCATA  
ATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTT  
TGCATATTTCTTTCATTCTAAAGNTGTTCCCTGCCCGGGAGCGTTGGCTTTCGCCTGTAA  
TCCCAACACTTTGGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCA  
GCCAATGAGCGGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACGCCCTGCCTG  
TANTCCAGCTACTCGGGANGCTGAAGCAGGAGGATCGCTTGAACCCATGAAGTGGAGAC  
TGCAGTGAAGCCGATATCGCACCANAAGNGTCCAGCCTGGTCGACAGAGTGAAGACTCC  
NTTCTTAAGAAAAATAAAAAATAANGTTGTTNTCTTGAAGAAAAAAA  
Sequence 1171  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGGAGGAATGTTTGGTTGGGAGAATCACAGC  
TTTACAAGGGTGTTTATATTTGATTTGTGTTTATTTGAGGCAGGTATTGTAATATAAA  
GGAATCCATTACCATGTCTTATAAATGACCTCTAGCCATTTTATGATTATTGTTCTCTGT  
AAAACCTCTTCAAGACTTCAATGAGAAGTTTGTGTTATAAGAATTATCTTCTACACCTTTC  
CTTGTAAGAGCGTATTCTGTTTTCTATCAGTTCGACATGAAGTCCACATCACATGCTG  
TTCTTTTCTAGTTACATGATGTGCCT  
Sequence 1172  
CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTGAGTGGCAGAGCTGGAATGTG  
AATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCA  
AAGGATGGCCCGAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGG  
CTGAGNCTTAACCTCT  
Sequence 1173  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACGAAGACAGCATCCTTCAATCCCGCCAGCTCA  
TGTGCATCTGAGGGTGGGGCTCTGTCTTCATGCTAGAAACCAAACCTGCTCTCACAGCTTC  
CTGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACCTCGGCCCG  
GACCACGCTAAGGG  
Sequence 1174  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGCATAATAATTTTATAGATAAATGTCAGG  
AACAGAATCACATTCTTAAAGGCNGAATTTCTATAAACGTGTGTATATGTTGAACAGAT  
GAGCAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAANGACAGTGAATTTTGGGT  
ACTGTAGATGTCCACAGTCTGNCTTGAATTTAGTTCTGTGACTAAAGGAGGCTTACAG  
NTGCTCCAATTTTGGTTCTGNNGGGTACCTGCCCGGGCAGCCGCTCAAGGGCGAATTTCCA  
G  
Sequence 1175  
CCCTTAGCGTGGTCGCGGCCGAGGTACATGGTCACAACAGATGAGCAACTGATATCACTC

Table 1

ACACATGCTATTAAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAA  
AGCGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAATGCCAAT  
GTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATCCCACAGGAAGAGTTGCCC  
GTTAAACTGTCTCAGGTGCCAGACCCTCCAGATAACATGAATCTGGCCAAGAATTTTCCA  
GCACATATTTTTGAGCCAGCTGTGTTGTTAACACCAC

Sequence 1176

CCCTTTTCGAGCGGCCCGCCCGGGGCAGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAG  
GCGGTGCCTCTAATACTGGTGATGCTAGAGGTGATGTTTTGGTAAACAGGCGGGGTAAG  
ATTTGCCGAGTTCCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACAACACT  
TAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTACTTCTGAGCCTT  
ATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTACACTTTAGAGAGGTTGATTAACGAGT  
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCA

Sequence 1177

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGC  
CTGCAACTTATTCTTTAATAGTTCAGAAATATTAACAATTGGGTAAATTTGGGTGAAAGGT  
ATAAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTATTTAAATG  
AAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACCTATTAAATAAATCTGAGT  
CCAGGCATGACACAGTGGTTCATGCCTGTAATTCAGGGAGGGACTGGGAGGCCGAAGTG  
GGCAAATCACTTGAGGTCAGGA

Sequence 1178

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAATTGTTTTAGAAGCAAACACTACAGGACTT  
AAAAAAGGTGATTTTTTTTTTTGGCTGCAAGTAGGCACCTATTGTAATTTTTATTCATG  
CTATGAACCTCATGATTTTCCCTTTATCTCCTTTGATCCTACTTAAATAAATTTATAGAG  
TATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGATGTTTATTTGTTCA  
TTAGCACTCTGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1179

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCTTTT  
TTCNGTNAAAAAAAACTGCN  
TCCTTTAANGGNNAANNCATTTNCTGGATTAAANNNCCCNCGGAAAAANGNNGGGGAC  
CNTTTTTGGAAAAAANAATTANGGAATTTAAAAANGGGGGGNGAAAAATTCNNTGCGGG  
NNATTNNTTNNAAAAAATACANTTTTANTTTNANCATNTTTNNACCNNNCNACNTTTAA  
ANTTTTNAANAGGTTTTTACNCTTTTTTGTTAACAACCCCNCGNAAAAAANAATTT  
TTTT

Sequence 1180

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTCCCNANCTNNTTTT  
TTTNCNTTTTAAAAAAAANTTTTNNNAAANGGTTTTTTAAAAANTTTNNNGGNNNGGA  
AANTTAANANNATNANNNGGNANAATTTTTTTTTTTTTTNCNCCCAAAANTTTNTTNGG  
GGCNTTAANTTTAAAAAAAANTTTNNNNCCGNTTTTGNNNNNGNNGGNGGGAAAAAA  
AAATTTAAAAAA

Sequence 1181

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTAGGCTTTCATAAAATACAGCAGGGCAAG  
AGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGAC  
TTGAAAAAGGTGGAGAAGCAAGCCTTGTTGGGTATTTAGGGTAGCAGTAGTCCAGGCAAGG  
GGAACAACACTAGTGCAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTTAAGAACAGTAA  
GGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCCAAAGTGGTAGAAGGTGGGGA  
TCAAAGAGGTAATGAGGCCTTG

Sequence 1182

CCCTTAGCGTGGTCGCGGCCGAGGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCAC  
AAGGTGAAGTCCACANTAGGCTATCTGCAAGCTGAGGAGCAAGGACCANTCATCCAACC  
TCAATAGNANAAAANGGNNGNAAGCCCCGACAGGGCAGCCTTCAGTCTGTGGCTGAAGG  
CCCTAGAGCCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAAAGCTGAAGAAGCTTG  
GAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACGGGAGAGAAAAGATGGGCCGGAAGACT  
CAGCCAGTCTAGCATTTNCACATTTCCCCCGGTACCTTGCCCNCGCCGGG

Sequence 1183

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTTCTTTTGTGTATTACTTTTCACTTAGC

Table I

ATAATGTCCTCCAGCTTCATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGG  
CAAGGGTAAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAACTC  
TTCCCTGTTTTAGCTAGTCTCAATTTGTCTGATGTCTGAACCCCACTGCCAGAGTTGAG  
TCTTGCCTGCTGAGTCATGTCCAGACTCCTACCTCAGAAGTATGAAGCATAACTGGTGT  
ACAAACACCATCTTCAGAAC  
Sequence 1184  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAGCTCATTCTATACCCGAAGAGCA  
GTCTCAGAAAGCAAGATTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTAANTTTT  
CTAAACATTCTGATTGGAAGTAGTGGATTCTTAAATGATTCCAAAGTCATCTGTAATTCT  
TCTGTTTTGTTTTGTTCTGTCTTTCTTCAATTTGGCTTTGGGTGGGGGAGGGGCAGG  
TGACACAAAGGATTTTTTTTTTTTTTTTTTAAATTTTGAATCTTTNCCAATAACCCA  
GCTAAAGATTGCACTGAATACAACCTGTATGCCTTTTGCAT  
Sequence 1185  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTGTATTTGTTCTTATGAAATGACTATCTG  
CCTTCGTATCTAGTAAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTAT  
TTTTTATATTACCACATCAGCATTATATTAAGAGTTTTTAATAGTTGAATGATTTTTG  
CCAACTACTAGTATAGACTCAAATTTGCTATTTAATTTTTAAAAACAATTTATTTTGT  
AATCCTTTAAAAATATTTGGTTAGTTTTGGATTAGAAATGATTTATGTTAGCCATGTGT  
TGAAGATGAAATG  
Sequence 1186  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAAG  
GCAATGAAATGATGTAATACAATGAACCTCAGAAAAAAGCTCTGTAAATCTCAGA  
CTGCCTGTTTATCATATGCTAGAGTAACTTACATTCCTTTCTTGTTAGAGAAAAATGAT  
GGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACCTACAAGAGA  
AATACAGTTGGCCCTTGAACAACACAGATTTTGAACATGAGTCCCGTGACCTCGG  
CCGCGACCACGCTAAGGGCGAATTCAGCACACTGNCGGCCGT  
Sequence 1187  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTCTCAAATAACCTGTGAGTTGGGAAATTCCT  
CTCCTCTTGAGGTCCCAAGATGGCGTGGGGTTCTTGGGCCTGTGCGAAAGTGGCATTCTT  
TACTAACACAGGTCAGGAACCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCAGTT  
TTCCCAAGGAACTTTATTGGCTCCATAAGTCAAGTTTGAGTCTTAAAGGAAAGCACAC  
CATTCCCATCAAAGTCCTGGTAAAAACAAGTTTCTCTAATTGTGTCTGTTGCAAAAG  
AAAAACAGATTCTTATTGCACTTGTGCAA  
Sequence 1188  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATCTTACTTGATTATTTTATTTTCTATCC  
CACCAATCCACACCTTCACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTT  
TGTTCAATGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAATTA  
TGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAGTTGAAGTATAAAT  
ATATATTTTGAAGAATAAATGCTACAGTAACTGATTATGACAGCTAATTCTGTGTACC  
TCGGCCGCGACCACGCTAAGGGCG  
Sequence 1189  
CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTA  
GCTGAAATCCTAAAAATTTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATA  
GACAACGAACATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCCAGTTGGGG  
TGTGTGTGTGTTTGTGTGTGTGTATGTGGTGGGT  
Sequence 1190  
CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACCTCTTA  
AACACCAGCTCGGCAAAATGATAGGGCTTTTCCCTTCGAATTAGTCACCACAGGTGNGAA  
AGACAGAATGACTAATNCCATCTNGANTAAANATAGACCTTNNAGAAATCAATNACNCT  
TATNTTACA  
Sequence 1191  
AATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCATCTTTTGTCTACTTTCTGTG  
ACTTAAACTGCCATCTGTGATACATGAGGACTTACCTAAAATGTCTGAGAACTGACTTAC  
GCTTGATTACCAATGTTTTGGAGTTTATAAAGCTCAATCTAACAGAACATGATGATGA  
TAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAAAAATAAATATGG  
TACCTGCCCGGGCGGCCGCTCGAAAGG

Table 1

## Sequence 1192

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAACAAATCTGAAATATCTTATTAACAAG  
AAAGTAAAAATGTTATCAAAAACACTGTCTCATCAAAAAGATTGAGAGCCAAATTT  
AAAGAGTCTCACACTGGACACAAAAAATTTGAGCTTCAAAATAAAGTCAAGGGATTA  
AAACACATAAATTGTGTTAAATCCACAAGTTCATAATGATACTAAAAAATAATCTT  
GTTGGTTTCTCTAGAGGCTACTAGAAAATCAGCTCATTATTTCTGATATTGGTTAAAT  
AGAAGAAAAGAAAACCAAGCAT

## Sequence 1193

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTT  
TCATNCAANAAANATAATTTTACACTTATTCTTTGAAAGANAAATCTATGGAATTTNT  
TNTTCTAATTNAATTCAAAATACATTCTNTNANCCNTATGCCCTNATACTAGNAACTNG  
ATGGTNAGCGGGTAAGTAGGTAGTAGTANAANAACANAANGGGAATTNGGGGAGCANAA  
AAGGGANAAA

## Sequence 1194

CCCTTAGCGTTGGTCGCTGGCCGAGGTACATATACATTATNGTAATTAAGCGTGCAT  
GTGTATGTATTAATAAATAGGTATATAAAACAAATACANTATNTACAATNNAACACCT  
AAACGCAGAGGCTGCTGTTATC

## Sequence 1195

CCCTTAGCGTGGTCGCGGCCGAGGTACATAGTGTGCGGAACTCAAATCGGCATTTAGATA  
GATCCAGTNGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTG

## Sequence 1196

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAGGGAAGTTGCTAGGAAATANAGCAGGTAA  
TTTNTCGTTAATTATGGAAACCATNGCAACACAGTAAATATTATGTCTCTNAATTTGTCT  
TTCAGTGNTTTTTGGCATGANTGTNATGGAANAGTAAACAAA

## Sequence 1197

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGTGTCCGGAGGAATATATAGAAAAC  
GCTAGGCTTAATTCTCAGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTTA  
CTGTATACACTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1198

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGCCCGCTCCCCCGTCCATTCCANTTTCCTG  
CCCTCTACTGGCCATGACGGTCATCACAGTGCCTCCTCATTCCCTAACTTTTAAATACAC  
TTGAGACCCGCTGATTAATNTTGCCTANGAAAAACAAAACANAACAAACANNAACA  
AAAACAAGACACTCACATACAATGTTTTTAAATGCTTGAAAAGTACCTGCCCGGGCGGGCC  
GCTCGA

## Sequence 1199

CCCTTAGCGTGGTCGCGGCCGAGGTACCACATTCTGCTCAGAACTGCTCACTTCCTTA  
AATTGTCTTTTTTCCCCAGCGTGAAATGTATCCATTTATACTTGCCTATTGCCTGTTCT  
TATTAGCATCCAAAATGTGGAAGGCCTCCCAACCACCATTTCTNGCTGTGTCCTTAGGA  
TGTGCAGNAAAAATATAGACCTAACAGNTTATGTTATAGAATGGGTTTATTTACTTTGG  
GTGACTGTTTATAGTTTTTAAATAAAGACTGAACATTTTNTCGAAAAAAAAAAAAAAGA  
ANAAGAAAGTACCTGCCCGGGCGGCCCGCTCGAAAG

## Sequence 1200

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGG  
ACGCTGACTCTGGAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGAC  
GATTTTAGGCAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAAATGGAAT  
TTATAATAGAACCCTACATCATGAGTTGGTGTGAAGATTAAATATATTTATATCCCGGCTG  
GGTGCGGTGGCTCAACCCTGTAATCCAGCACTCTAGAAGGCCAAGACAGACAGATCACC  
TGAGGTCAGGAGTTCAAGACCAG

## Sequence 1201

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGAAGAGTAAGTGGGGAGGGATGGGAATGGT  
TCCTTGAGACAATCTTTTACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTG  
ACTTATTTATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTTGAATGGTGTGGTGA  
AAATTAAGAAAAAAAAAAAAAGAAAAAAAAAGTACCTCGGCCGCGACCACGC  
TAAGGG

## Sequence 1202

CCCTTAGCGTGGTCGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTT



Table 1

AAGGGGGAAATGAAGGAACTTNCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGA  
GAACCATGTGCTGTGAGGGCCTCCGAGTCCATCTGTTTAATCCTGTCAATTGGAGACTTG  
AGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCCAAGATCACACAGCACTGGAGAAAG  
TGGATGAGGAGGGGCTGAAGAAGCTGATGGGCANCTGGATGAGA

Sequence 1212

CCCTTCGAGCGGCCGCCGGCAGGTACATACAGTTTACATTGTGGTAACAAAGTAGGAC  
ATGCTATGAAGGCCCTTTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAAT  
TTTTAAATAATATTGCTGGTTTTGCTCAACATGAATTAATATGGTGGCTAATGTGCA  
GATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTTGTTTAATATTACAA  
ATGCATTTAATGACACTTAAATTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1213

CCCTTAGCGTGGTCGCGGCCGAGGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTT  
CTAAATGCCATTCTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTTAATTCCA  
GGGCTGGGGCAGGGAAGTGAAAGAGAATCACAGAATCCTGTAATGACAGAAAAAAGT  
CACAATAAATGGTGGGATTATGTCAAAAGGACATGGGATTCAACTTGAAAGATCTTCCAA  
TAGCCAAATCTGAGAAAAGTTAAGCAACAAAAAATAACAAATCTTATAATCTATAGA  
AAAAATATGAATGTATA

Sequence 1214

CCCTTAGCGGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTANAAATNGG  
CGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGGTACCCACATGCCATGCTGGGG  
TCACAGGANAGTTGCATTTGGGAATANAGTGAACCANTAGGGGCTGTGGAAGGCAGGCTT  
TGCAGTAACAAGAGGAAGAGGCGATTCTGGCTCCTCCAAATGTGACAGGCTTGTTTGAA  
TAATTTCCAGGCTGGAGGGAAGTGAGCCACGTTGANACCCANGGAG

Sequence 1215

AGCGGCCGCCGGCAGGNACAATTAATTGTGTTCTTGTGACCTGATGATTTTNGAAAA  
TTTGCTTTTCTCTTAAGAAATTTAAGTTTCAAGGGCCGTATTAGTTATCTAAATATTT  
TGGGCTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCATGATGACAATTT  
TGTTACTTACACTGCCTATTCTTTATTTCTTTTTAGTTCAAAGGTGAAATTTTGACCTT  
TGTTATAACAAAGCCTCAAGAAAAGAGAAATCTGCCTTTTAAACATTGGTTTTCTTGCA  
AT

Sequence 1216

CCCTTAGCGTGGTCGCGGCCGAGGTACANGGAGGAANTNAGANGTAAATNNAACCAGAN  
CTGGATTACTCCGGTCTGAACTCANATCACANTAGTGACNTTAATCTGTTGAACAACTG  
AAC

Sequence 1217

CCCTTAGCGTGGTCGCGGCCGAGGTACCACTGTGCTNTAGCCTTGGTGACAGAGCAGAGA  
CTGCTTTAAAAAANAAAAACANAAAAANAAATNATTAAAAATTTAAAAAATGAAA  
AAAAGCTGCATGCTTGNTTTTTGTTTTAGTTATTCTACATTGTTGCCATTATTACCAA  
TNTNGGGGAAAATNCAACTTACAGACCAATNTCAGGAGTTAAATGTTACTACGAAGGCAA  
ATGAACTATGTGTAATGAACCTGGTAGGCATTATTTATTGAATTNTNANCATTCCANATG  
TCCAGCACATTTTAAAT

Sequence 1218

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGTTAAATAATCTGACTTTTCTATGATTTG  
GCTTTTCTGCCTTGAGTAACTATNTAAGATATCTAGCGTGATNTNTTNTATNTGGGCTA  
CTTTTGTAGAACAAAACANAGGTNTTANAANAACCCTTGCCACANGGNCCTTTGAAC  
CGTTTACCTAAGTCAAGTGTAATTGAAAAACATAACCAATGCACCANGGGGTNTATTGT  
NAGATAATAAAA

Sequence 1219

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTA  
TTTGGGCCCTAACATAATCCTGCTCANAGCGACGAAAAAAGGCAAGCCTTTTCAAACAT  
AACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAATAT  
CTATCAAAATTAACTTTAANAGAAATACTCTTTCTTAAAGCCCTTATTTTTTAAGA  
CACTANAAAAAAGTTACTATAAAAAGTGGTGGTCTGGGGGCTAAAAACAAAAACAAAAA  
AATCCTCTTTTCTACATTTTTTAGTTTT

Sequence 1220

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCA

Table 1

ATGCTGGTTGATTTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGGAAAAA  
AAATCCAAATAATAAAGTGACATATTGGTGTTCAAAAAAAAAAAAAAAAAAAAAAAAAA  
NAAGTCCTTTTTTTTTTTTTTTTTTTTTTTTACTTNATAAAAAANACNGAGTTTTATTCA  
NATGTNTNTNTTTGNGNCCCCACCNTTTNNATGTTTGACCACCNTTACNACTNTNTCCT  
NTNATAACATTNCCATACATACTTAAAC

Sequence 1221

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCAGGCCAATCAAAGTGTCTCAGGAA  
TTAGGAATTTACACATAAAACCTGGAGAGATAGCACATGCTCTTCTTTCTTCTTGAC  
TGTGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 1222

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTNAACAAACCTGTNTTGGNGGGGTGNGGGTATAATACTA  
AGTTGANATGATATCATTTACGGGGGAAGGCNCTTTGNGAANNANGCCTTATTTNTTTG  
TCCTTCGNACTGGGCTGGAANACCTAAACTACNTGTAAATGTAAGTAGNGACCAATA  
AAAAATAAGGNTACCTTAACCTCTTTTTCT

Sequence 1223

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAACAATTTGTTAAGATAGATCTCACCT  
TGTGTTCTTACTGAAAAAAAAAAGAAAGAAATAGAACAGAAAAGCAATTGGATTTTAA  
TTCTGGAACTCCTTCTCTCTTACATCCAGGAAATTTGCTGTTATTTGAAAAGCA  
AATTTAAACCTATTTAAGGGAGAGAGAGCTCTGTAAAAATTCATTTATTAGTTCTGGAC  
CAATGTTATTTATAAGCTATTATTTCAAATGATAAAAAATAATGCATAATACATTTGAT  
GATAGAACATTTTCTTTT

Sequence 1224

GCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTCAAGACCTCACTTTTATC  
TGTGAAATGTGGGAAGGTTTATAAGTAAATGAATGAGGGGTGAGGTTGTTACCATTAAT  
GNGCCTTGAAGTNATATTTGTGGATAGCTAAAAGCAATTTTGGTTTATTTGGTTTATTC  
TTTGGTTTA

Sequence 1225

CCCTTAGCGTGGTCGCGGCCGAGGTACATCATTTGATGTATGTTTTGTTTTTTTAACAT  
AAAAGGATTATATCCTTTTCCGCCAGCTGTTTTCACTCAATACATTGTGAAAATATTTTC  
ACATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGA  
TCATCATTTAATATTATTATCAATTTTGTATATTTAAGTTAGAACTTTTCCATTACCATA  
AACATCATTATGAATGAGCTTCTTGAAGTGTATTTAATATACTTCTTAGGATAAATG  
CTTAAAGTAATAA

Sequence 1226

CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACACTATGTAATTA AAAANGCGTGCA  
TGTGTATGTATTA AAAATAATGGTTATATAAAACAAATACAATATATACCAATAAAACACC  
TAAACGCAGAGGCTGCGTGATATCCACAATAGTAATACCAATAGTATTAATGATGTNTAT  
GTAAACACAAACAAAAGCAGCGGACCGTATTAATAGGCAAACACACAAAAGCACACAAAA  
GCAAAGCAAAAAGCCCGCCAGTAATGTT

Sequence 1227

CCCTTTCAAGCGGCCGANCGGGCAGGTACCCGATATGTATGTTGAATTAAGAGGATTTT  
AAAAAATTACCCTTAAGTCTTTGACATNACAGCCCCTGTCACTTCTTGTCANAGTTTGTA  
TGTGTTGNTAATNGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGTT  
ACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAGTCTGTCTGTGCTTT  
ATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAATGGACCATTCCAACCTAAGTTA  
TCTNGATATACTGGGATTACAATA

Sequence 1228

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTANANA  
CAGAGTCTCCCTGTGTTGCCAGGCTGGTCTCAAACCTCTACGCTTGAGCAATCTTCCCC  
CTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCAATAATGAT  
TTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTGGACACAAAGGCANACAAA  
AGTTTGACAAAAGGCATTTTGAAGTAGGACCTTTATTNTAATATTAGTCTAAACAGNG  
GGA

Sequence 1229

CCCTTCGAGCGGCCGCCCGGGCAGGCACAGAAAAAAATCTACACCAGGTAACACTGGA

Table 1

GGATGCAGGGCTACATTTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCCAGTG  
CTTTCCAAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTTCTTCTTCTT  
TCCTCCTTGAATTCTAGTACTTTGTGAAGTGTGAGGTGTCCCTTCCTAAGTCACAATTC  
ACACTGATGCATACACTATAGTGAAACACTGGCTTTAAGAAAAGTATTAAACAGAAAACC  
GGCAATTGTTATTTATTTTAA

Sequence 1230

CCCTTTGAGCGGCCCCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTTGGGTAGTCCA  
CTTAGTGATATTAGTGGATNGTGTAGACAATAATATTAGTCCTAGA

Sequence 1231

CCCTTTGAGCGGCCCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACT  
TCTAAATATTGATCAACCATTAATAATAATGCTTATAGGGGTAAAAGAAAATNNTTGAAG  
CACTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGCTCACTACTTCATATCTTTTATG  
TAGAATAATTCTATNAACATGTTCCCTAAATTCCTATCAGTTTGTAAGGCAATGGATT  
AAATTATTCAAATGTAGCTATTTAACCGTCAGTNACAATGCCTAGAAACCTATTTATTCA  
TCTGTAATATTAAGAAGGCTGAATTTGATTGGATCTTGAAAAATCC

Sequence 1232

NAGGGGGGCGGAAATTTGGGGGGCCCCCTTCTTAAGAATGGCCATTGGCTTCCGGAGGC  
CGGGCCCCCGCCAGGTTGGTGGATTGGGGAATTATTCTTGCCAGGAAATTTCCGCCC  
CTTTTAGCCCGTTGGGGTTCCGCGGGGGCCCCGAAAGGTTACCATTTTAAAAAAGG  
GGGGGGATGGCCTTAAATAACCTTTTTTAAAAAANAGGGTTTTTAAAAGAAAAATTTA  
AAAAATTTTTTAAAAA

Sequence 1233

CCCTTTGAGCGGCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC  
TAAATATTGATNCAACCATTAATAATAATGCTTATAGGGNAAAAGAAAATTTTGAAGCA  
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGCTCACTACTTCATATNTTTTATGTN  
GGATTATTCCTATAAACATGTTCCCTAAATTCCTATCANTTTGNAAAGNCAATGGATTAA  
ATTATTCAAATGTGGCTATTTAACGGCCAGNAAACANTGCCTAGAAACCTAT

Sequence 1234

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTTTGCNGATTGCNNNANGANTGCCCCATG  
AGGGGGGANAAAAAAATNTTTTTTTTATTATNTTGGATCTAGCCTANNTCTATTTTTTC  
CACCTGCCCCAATTAGGTATTTCCANTTGCNACCGGCCCTAATCCANAATTTAAATTTGT  
NCCTNTTATAATTNGTTTNCNTNNANTCCAATTGAAACCCCTTTTGGGGTTATTGNNTCCN  
CNCACACTTTTTTNATTGTTTAAANNCCANTAAAAAACANTNTTCNTCGGNTATATAAA  
ATAANACGNCCTTTTTACNTTATNGTTAATTAATAAANCCNCAATTCCTTTTNGTTNGNCC  
AACCCTTGAAAAANTTCCAANTAAACCTCTNCCTTCCACCANGNGANGACCAAAANN  
AGGAAAGTAACCCCTTANTGNNAAGGNNTGGGGGAAANNNTTNGGGCCTTTTGGNGG  
TTNCCGNAAAAANAAGGGGNTAAC

Sequence 1235

CCCTTCGGCCGCCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTCACATTTATTCAG  
ACTTCTCCCCCACAATTTTTAATCAAGCACCTCCCAGTAACAAGTTATTTAATTAGATCG  
ATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATT  
ATATAATAGAATTGGTTTCTATAAACCATTTTATAGTATTCAACTTTTATAGTATTACTTT  
TTCAGATGTATGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT  
AT

Sequence 1236

CCCTTAGCGTGGTCCGCGGCCGAGGTACTCGGATCTNTTATNNNGTNNAATAANNCTCT  
TTCGTCTACAAGCCACACTTATNCAAAATNTGTGGACAACCTCACACTNGCTATNATACC  
TGCTTANATTCTCCTANTTAGTCCCTGAGGGTTTATACCTTTTATTCTTTCATTGAAATT  
TTAACAGAGGTTTCTGTGCGGAAGCAGAGTTAAATGCCTATGTTNACTCCATCATGGTTAT  
CTGAAAGTCTGAGGNGCAATTTCAAAAACCTCA

Sequence 1237

CCCTTAGCGTGGTCCGCGGCCGAGGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGA  
GNGNATTACTANATAAATGACTGGGGCAANGCAAAATTGAGGAGGAAATTANAACCTGTT  
TGACAANACTTTTAAAGAGCCTACTTTGAAATNACAGAAAGTCTTGATNAATNTTGCAAAT  
AATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTT

Sequence 1238

Table 1

CCCTTTCGAGCGGCCGCCGGGCGAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCGAAACTGTNTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAACTCTGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAGGGAGAAGGGAGTA  
ATATGGTTTTTTAGTAATATAGTAATTTACA

Sequence 1239

CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTNGGGCCAGAGCATCCGGAGGT  
A

ANANAACCTNTTTTTNTNCTTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCAT  
TTTCAGTGGAACAAAGTTGGTCCGTTACTAGCTAAGATGTGTTTTGTACCTCGGCCCCG  
GACCACNCTAAGGGCNAATTTCCAGCACACTGGCGGCN

Sequence 1240

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATTAAAAATTTCCGT  
TGGGGCGACCTCGGAGCAGAACCCAACTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTAACATAGTTTGAAGTTGGGTAATGTGATTCTCTAGCTTTGTTAGCTCTGTT  
GTTTTCACTTAAGTATTACTTTAACTATTAGGGCTCTTTTTTGGTTCATATAAATTGTA  
AAATAAATTTTTCCAGTTCTGTGAAGAATN, CATCGGTAGTTTGATAGGAATAACATTGA  
ATCTGTACCTGCCCCGGCGGCCGCTCGAAGGGCGAATTCGAAGCAC

Sequence 1241

CCCTTTGAGGGGCCGCCGGGCGAGGTGGATCACTTGAGGAGTTACAGACCAGGACTGGTC  
AACATGGCGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCCGTGGNTGGGCG  
TGTGCCCCCGTAATTAANTNCCNANCTTACCTTTGNGGAAAAACTTGAAGGGCCAGGGA  
AGAAAATTNCNGTNTTTGGNAAACCCCNCCNTAAGGGTTGGGGAAGGGATTTGGCCAAG  
GTTGGAAGTTTCAAAAAGGAATNTGGCCAACCACAAGGNTGNCCAACCTTCNCCAAAGCC  
CCCTTGGGGGNCCCCAAAANNNAAGNTTGGANGTAACCTTTCCCAATTCTTTTNAATNAT  
ATTACANNATNTAGATANACNNTATAANAGNGANNNGANANTGGGNTNACCCCTTNGG  
GAGGCNCCGGNCGNNAACCCCANCCNNNCCTTTAANAGGGGGGGGGCCG

Sequence 1242

CCCTTTGAGCGGCCGCCGGGCGAGGTGGATCACTTGAGGAGTTACAGACCAGACTGGTCA  
ACATGGCGAAGCCCCATCTNTACTAAAAATCAAAAAATTAGCTGGGCGTGGTGGCGTGTGC  
CCGTAGTAGTCCCAGCTACTTGGGAAGACTGAGGCAGGAGAATCGCTTGAACCCGCGAGG  
TGGAGGTTGCAGTGAGTCAAAGATTGCACCAAGTGCACCTCCAGCCTGGGCAAGAATGAGAC  
TCCATCTCAAAAAAAAAAAAAAAAAAAAAAGTCTTNGGGCCGCGACACNCTAAGGGCG  
AATCCAAACACACTGGCGGNCCGTTACTAATGGATCCAGCTCGG

Sequence 1243

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCNTGAA  
GGGAATCATANGAAAAATTTGATTTTTGTGTATGGTGTAAGAAAAGAGTTCCGATTTTCA  
ATCTTTTTGCCACANTGGGATTNTCCAGGCCTTTTTTCCCAACANCCCATTTGTTATTTT  
GGAAAAGGAAGNAACCTTACTCNTNTTTCCCCCGCTTTTTTGGTCGGGAANTATCCTTTT  
GGGGNCAAAACCTCTTATGNTTTGGGNAAAAGAGNGCCCTTTTACCTTTTTTGNCTT  
TTTCAACCTCTTNCATTTGGGGGTCTTTCCACCCAATTAACCCAAAAGGNTTGAACCC  
CCTTNGGAAGNTTTCANCCCTTCCCCCAATTCCTTATCNCCCTTGNGAATTNCCAAAAA  
AACCNTTGGTTGCTCCNGTTTCCGTTTCNTTTAAANTTTTTCTCNCCGGGGNAAGTGG  
GAAACCTGGTTTTGCGNTTCCAACCTTNGNCATTTGNCCATTGGAATACCCCTCAAGN  
AAAGNAAAAGNCCCTTNGNTTTTGTNNGGCCNTTNGTTGGCCCCAANG

Sequence 1244

CCCTTAGCGTGGTCGCGGCCCGANGTACAAATAANGTCTTCCAAGGGTTTCAAGATAGAAA  
ATGATNTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATTCTTTGGGGAAATGTACGTA  
ATCAGTATATTCTGGGAAAACATANTANAGAATGAATNNATAAATTNCATTGAATTNGGA  
ATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATANAGTAGAAATACCACATTT  
CAAAANCAGCTGGAGTANACAGGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA  
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACANTGATCTTTTTGAC  
TT

Sequence 1245

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGTGTCTTTCTTATAGTCNGTCAATGCTG  
GGAAGTAACAGGCAGATGTGACTTCACTTGANCAATTTGGANGAANCAAAAAAGGTTGCGC  
TTGNTCGNNCCTTAGGGTTAGATGGGCAAGGACCTTGCTTTTTGCNTCCCCAATTTCTT

Table 1

AGGGTAGNTGTTNTTCTTTGNGTTGCANGGGATNNGTANACCGGTACATCCTTCTTGNNG  
GAACCAAGGGGNNNACNTTATGAANTGNAAAAGGGGANGTTCCTTTGTAGTAAANGGCCT  
TGGATTGGTTTTCAAANNGGNAAGNTGGGGTCCACCA

Sequence 1246

CCCTTAGCGTGGTCGCGGCCGAGGATACTTTTTTTTTTTTTTTTTTTGNCTAATTACTA  
CCTTNTATTCTAATTGTGAACCATGGCCCTGAAAGCTTGATAANCAAGACTTGGCTGAAN  
CCAGAAGGGGNAACTAAGTGNGGTTCCGGCCAAGNAAAAGGGATTANTTGGGGATGNGAAA  
ANTCAANTGGNCTTNTCCCTT

Sequence 1247

CCCTTGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTANATGA  
AAAACTGTAAATCTTTATTTGAAACAANTGCNTTCAAAAGAANTNAAAACACTTCAAGG  
ACTTCTAGTAAACATAAAAGGTGNAACAACTGTGGCAAAAANTTTTGCATTTNGTANAT  
AAGCTAANATAGGGGTAAACNAGTACCCAGGCCANAATTAAGNGGNATNNCNTCAANT  
ACTTCCANTCANNNAAGGG

Sequence 1248

CCCTTCGAGCGGCCGCCCGGGCAGGTNCTATCCCTATGAGGCATAATTATAACAAGCTC  
CATCTGCCTACGACAAACAGACCTAAAAATCGCTCATTGCATACTCTTCAATCAAGCCA  
CAATAGGCCCTTNGGNTAGTTAACCAGCCCATTTCTTCATTCCAAAACCCNCCCTGNAA  
AGGATFNNAACCTGGGNGGCCANNTTCAATNTCTTACAATNAAATCCGCCNCCCAACCGG  
GGCCTTTTAACAATTNCCCTNCCAATATTACCTAATTTNCTTGGGCCCTTAGGCCAAAT  
AANCNTGCAAAAACCTTAACGNAACCGGGCAACCTTCCANCCCAAGGNTGCGGCCAAT  
TTCNATTAATAATTNCCCTNCNTTCTACCAANAGGGGA

Sequence 1249

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATGTTGCTCTCTCAGTGGCAACAATGAAGT  
TTTTGCAATTCTAGAACTTGGATTTTTTTTTTAAACAAAAGTCCCAAAACACCAAAAATGT  
AAACAAGATANNGAGATTAATATTGNAGTGGNNGTAATTTAATTAAAGTTATATTTGGG  
TTAATTTTTTAACAACTGAAGTCTTATTGTTGAACTTATTTTTCA

Sequence 1250

CTNTACATGCATGCTCCAGCGGCCGCCATGTGATGGATATCTGCANAATTCCCCTTAGCG  
TGGTCNGCGGCCGANGTACTTAGGTGCCTACAACATAAACAGCA

Sequence 1251

CCTGTAGATGCATGCTCGAGCGGCCNGCCAGTGTGATGGATATCTGCAAGAATTCGCCCT  
TCGAGCGGCCGCCCGGGCAGGTACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAG  
AACACTACGAGCCACAGCTTAAAACTCAAAGGACCTGGCGGGTGCTTCATATCCCTCTAG  
AGGAGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTCAGCCTAT  
ATACCGCCATCTTCAGCAAACCTGTATGAAGGTACAAAGTAAGCGCAAGTACCTNNGCC  
GCGACCACGCTAAGGG

Sequence 1252

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATTATTATTTCAAATTTAAAACTTCTTC  
TTTTTAAAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAACCTTGGCCTCAG  
ATGATCCTCCTGGGTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTGCTTTACAA  
GTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCATTTGCCAGGG  
ACTGTCAATTGCCCTAGTTTATTTTTCTGTTTTGTTTTTTTTGTCGTTTTTGTTTTT  
TTTGAGACAGGTTCTTAGTCTGTGCCAAGGCTGNGAGTTGCAGTTGGCCGCAATC

Sequence 1253

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTT  
TANTAGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTNTGACCTCAGGTG  
ATCCACACGCTTCANCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCAGC  
CTAAATATTTNTTATAGCAATGCAAGGATGGCCTAACACACTGCCTAAATCAAAATTGC  
TATTCACCTCAAGGGTATTTCAATTACCTGACTAGCTTTTTTGGTGATNTGGAACATA  
ATGTA

Sequence 1254

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTTTATCTTGGGATAAAATGGCTAGAT  
GAGTATGGACAGGGAGGCAGGGCAGATACAGTCTTGCTTCTGGTTTTAAGAGTTCTTCT  
GAACCACAATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCAACAATAGGGGTGAGAT  
CTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGGGAAGAAATGTTA

Table 1

TTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTTGCACACTATTATCCAATTGGAT  
AGACCCACATCTAAATGTCTGCAATTACAGTAATGTCAGCTGGGCATTGGTGGCTCATGC  
CTGTAATCCANC

Sequence 1255

GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCT  
TTTTTTTTTTTTTTTTTTTTTANAATAACAAAAATTTTTTACTNAAACATAAANATTN  
CAGANGTTTCCNNACAANCCNTNCAAAATGGTCACAANCTTTTTTNA

Sequence 1256

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTTTTTTTTTTTTTTTTTTTTTAGNT  
TTCCTTTTTAATGAGCTCACCTTTAACACAAAAAAGCAGGGGTGATGTATTTAAAAA  
AGGAAGTGGAAATAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCTANCANTCT  
TTCTTCANCTCACTTGGCTCTCTANATCCACTGTGGTTGGCAGTNTGACCAGAATCATGG  
AATTTGTANAACTGNGGAAGCTTNTACTCTGCAAGTAAGCANANATCGCACTGCCTCA  
ATAACTTGGTTATTTGAGCCNCGTNTTTTGCAAAAACTACTTTTTCTANTTTTTCAAN  
AATTTACTTTCAATNGTTTTAAAAAA

Sequence 1257

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTT  
TCAAACCTCAGTTTGAAAATGAGAGGAAAAACAAAATAAATGATTACATAATCAAAGGA  
TTAACTGATACAGACTTTTATTCTAAATGCTCACAAAGCACAGAAACCAACAAGAAATCAG  
ATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGNGGCAGCCACATAAGCCGCT  
NTTCACACCTGGCTGCNTTCTGCCAAGTTAGTCCTCAAAGAGAAAAACAAGGGAGGNAA  
AAGACCNAAAAAAAAAAAAACAAA

Sequence 1258

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGCTGGTTAATACTAAGATTTTGCCTTT  
ATTGGGTAGGTATCTTTTTTTATTTTAGCACCTGATAGCTGTCTTTCTACTGAGTAA  
GAATTATACTTTTAGATGTCACAGAAATTAGAGTATTTATTGTCAA

Sequence 1259

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCAACAATTCCAAAAGTTTTGACTGAAAT  
AAGCAAACCTACTAATGATTATGAAGTGAACATAACCAACAGGCTGTTGGAGAAAAAC  
ATACCTCTTCCCTTCAAGTAAGTTTGCCATGCCATACCTATCTGTGAGTGGTATTCTGGAA  
TGGCCAAATGGCCCTGGTAGGACTATGGGTCTGAAGTCGTGCTGCCCTGGCTCTGGCCAC  
ATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATATTCAGAACTGCAGGGAGTTCCCTT  
TAGTCCTGGCAATCTGAACCTGATTTTTTG

Sequence 1260

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGTGGGATTGTTAGACCATCCCCAAAAGGA  
AGTGCACCTTGGAGTCTGTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAA  
CAAGATTGCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGC  
TCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCAAGGAAAATTGCT  
AAGTCAGTGTTACTCTCTAGTGATGTTGAGAACTAGAGGGATTTCCAGACCTTTTACTTT  
TTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGTCAAATCCATCTCACAGNATTTGTTTT  
TGGATC

Sequence 1261

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTGGC  
TCCTCTGACTATATTTCAAATAGTCTGTCTTCAAGGTCAGNAATCTTTTCTTCTGGCA  
TGATCAACTCTGCTNTTAAAGGACTCTGATGCATTCTTCAGTATGTGAAGTCTTTTTTC  
AGCTCCANAATTTCTGCTTCATTCTTTTAAATCAATCTCTGTTAAATGTATNTGGTAA  
ATTCTGAATTCCTTCTCTTTGTTATCTTGAATTTCTCTGGAGTTTCTCACTTATTTTG  
AATTCTGTCTTGAAAGGTCACAATCCTGTTTTCTTAAGGGATTGGGGCCCTGGGTAAC  
TTATTTTAAAA

Sequence 1262

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGAC  
TTCTAGCTTAGTGAGAATGCAGTATACTTTTTGAAAACCTCGTGCAAGGAATCCCTCAAAT  
GCTGTAAGTGAATGGGTCAGTGAAGTTCAAACGACTTTTCTTGAGGGAGTATTTTAA  
TCGGACAAGGGAAGTCTTTTTCTTTGGGCAATGGCCAACAGGACTGAGAAGCCAGAGAG  
CTTGCACCTGAGCCATCTCAGCCGTGAGAGTAACAGTCCTAGGAAAATAGATGGGGGCTG  
GGGGTAAGGAAAT

Table 1

## Sequence 1263

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTAGGGGTT  
TTCTTTGTAGAGACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAACATCATGGGCTC  
AAGTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGTCACCATGA  
CTGACCTATATTTAATTTTTAAAGATTAGACTGGTGTAGCTGTAAATAGTTTGAAATA  
CCTCTCTGATAGGTGCTAGCTTATCGTTACTCTTAGTGCTTCTTGCAATTGCAAT

## Sequence 1264

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTTTAAGAGAAATTCCTAAACTGGAT  
ATATGTGGCAGGCTGAAAGCACTGTGAGTTGAAAGTCAAGGGGAGAGGTCCAGGCGCAGTG  
GCTCATGCCTGTAATCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGCCAG  
AAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAAAAGATCNNNAANT  
NAATANTAATNTAAATTAAGTTCTTTGGGCCGNNACCACNCTAAAGGGCGNAANTTTC  
CAGCCACCACTGGCCGGC

## Sequence 1265

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTTATTGTTAAAGTGAGTCAGATAAATCTTC  
AATTCCTGGCTATTTGGGCAATTGAATCATGGAAGTGTATAATGCAATCAGATTATTT  
TGTTCTAGACATCCTTGAATTACACCAAGAACATGAAATTTAGTTGTGGTTAAATTAT  
TTATTTATTTTATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGGA  
GCCTCTAAAAAATTTTCACTGGGGGCCACGTGGGGTCATTAGAAGCCAGAAGCTCTN  
CTCCAGGGCTCCTTCCCAAGTGCCTANAAGGGTGCTTNTAGGGAAACATTAGGATTCCCA  
GCCAGGGGGCT

## Sequence 1266

CCCTTAGCGGCCGCCCGGGCAGGTACTCAACACTGATTTGAGAAGAAAAGTGATTTGC  
TTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTGGCACTTTTTAGTTTCTCAA  
ACATGCAGAAGTAATGAGGTTTGACAGAGACATGAGACTATAAGATGTCTGTCAATTGCTG  
CCAACCATGGAAAAGATGTTAAGATGTCCAGCTGCCCATAAATCATATTTTCAAAGTGT  
GAGACACGAAGAATATCTTCTCTTATTTGGAAATATGCTGAAGGATAGGAATAAAGAAA  
AGGATTNCAGTAAAATGGGAGNC

## Sequence 1267

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTNTTTTTTGGNTTCTGTAA  
ACTNTNATTTTACACTTATGGGCCACTTGCCAACCTCAGGGGNCCTTGGCTTCTTGACTCA  
TTTTCTACAAAGGTTTACTTTGGTTGTAAGATGTAGTTAANAGGGGTANGAANAATTT  
NNGGAATNTATTTNCTTGGCTTNGGTNAAAAACCTCAACAAGTTTTACCTTTNCCGAG  
TTCCCAATTAATATTAANAANTTNGGNCAACCGTTTTGTTACCNTCNCCTTTTCNAGG  
AAAAAATTCCTTATTTGGNACCTTNTTCTTGGNAAATTTTTNANTAAAANAAAANTG  
GGGCCATTTTTNTTTTT

## Sequence 1268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCTTTGCAGATGTGATTAAGCAAA  
GGACCCAGATGGGGAGATTATTTGAATTACCTAGGTGGGACTCCACGTCATCACAAAGG  
GTCAGAATCCAAAGAGATGTGAGAATGAAAAGCACAAAGTGAGAGCAGTGGGATAGCCAAA  
TTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTNTAGAAGCTGCAGAAGGCCGGG  
GTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCACAAACCTGCCCACTCACGGTAGA  
CTCTCGATCTCCGGGCTGTAGAAATAATACATCTGTGCTATTTTAAG

## Sequence 1269

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGANATAAGATTTAAAAAGCATTTGTAAATTGTACTTGCAANGTCCGTNCTACAT  
TGGCATTTTGAACAAGGNACATTAATTGGTT

## Sequence 1270

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CAGAAGTATNCTCTCCTGAAATTATTANGCAGTACTTGNATCAACCACTCCGCCGTTACC  
CATACCAAAGCCGTCGCCTTGGNACCCG

## Sequence 1271

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTTTAGTCAAGGGATTGTTTGATACTCTTT  
AAGTTCACTGCCAGGCCTACCACTTATCTCTGTCCAGGAGGAGAGTTCCTTGTAATGAG  
AGGTTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTTTGGAGCT  
CAGGATATTAACTGAGTGGTGTCAAATATTNCCAGGATCAATTCGACATGCCATGTGT

Table 1

ACCTGCCCGGGCGGTCGNTCNAAGGGCNGAATTTCCANCACACTGNCGAGNCGTTACC  
TANTTGGATTCCCGAGTCTTCTGNTTCCAAAANTCTTTGGCGGTTA

Sequence 1272

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATGTCACATTNNCATAGGAAAGGTTATATA  
TACACTATACACTTCAACCTTGAAATGTGGACCCAAAAACATTCTATTTTTCAGTAATC  
NATTGAATTTNGGTGAGGGGTCCNACACCCTCAAATCCTAANTTTATCACANAAAAAGCC  
CNTNCTTGGCTGCCAAGCGCTGGCNGATGAACCTTGTNTTGCTGNANCTCTTNATGANTT  
GGATNCCANAGTNTCNTGATGATCCTNTTCAATGTTTANGAGCATNTGACCNGNCATGNT  
GTAGNGGANTGACTTTC

Sequence 1273

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAAAAACNTTNAAAATTAAAAA  
ACTCAAAAAAAAAAANAAAAATGAGCATTTTAAAAAANGGAAANANTTNNAANNNNNNNG  
GNAAAAAAAAAAAAAAAAANNGNAAAAANNAANTNNNGNATTGNTTTTTTGGCAANTNANC  
AANATCNTCCCCCTGAAAAAAAAAAGTTTTTTTTTTT

Sequence 1274

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTC  
TGGAGGCTAGAAGTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGA  
AGCAGAATCTGTTCCATCCCCTCTCTTCTTGTCTTCATCTGTTCTATGTCTGTCTTTGTTT  
AAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGGCCCAGTCTTAATGACCA  
GATCTTAACATTTGCAAAGGCCCTATTTCTCACTAAGGTCGTATTTACAGGTATAAAGGG  
TGTAAGACTTTAACATCTTTTTGGGGGAAGACACAGTTCAATCCGTAACAAGATGTTAAGT  
CCTTTCCTCTCCTAAA

Sequence 1275

ATAGGGGCCGGAATTTGGGGGCCCTCTAAGAATGCCATGGCTTCCGAGGCCGGGCCCGC  
CCAAGTGGTGGAATGGGGATATTCCTTGCCAAGAAATTC

Sequence 1276

CCCTTCGAGCGGCCGCCCGGGCAGGTACTATAAAGGTTGAGTAAAAACAGGAAAGCGT  
GCTATAAGTTCAAATCTGTTGTATTACCCTAAATTAAGATAAACCAACCTGAATTATAGT  
AGATTTCTCAATAGATGAGGAAGTGAATAACTATGTAAATATCTTCCAAATGCTTT  
TTATACTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTTGGTTAGCTTAACCTAATGG  
GCGTTATTGGATTATATGACTAACGTTTCTCAGTATTGTAATGCTTGAAATATTTGAA  
AGAAAAAATGTTGTTTTTAGTTGAACTGGTATATATAATTCAGTGCTTGGCAGGTTA  
GTATATTTTATGCATTTT

Sequence 1277

GTACCAACACAATTGTTAATTTCTCACAGGCTNAAGGCATTCTGGGAAGCTATACAGGG  
GACAGGAAGCATTTTTTGGGAGCCTAAGGGGAGCCAGTTTGAAGAGACAGCATTTCTCT  
GGCTAGGACAGGTGGNGGNGGTGGCCGGTTNAGGNTCTNCAAGGGACCCTNTGCAGAT  
GCCGGGGCCCTGTTTATTCTGAGCAC

Sequence 1278

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAAACATAAACTGAGCAGTTTAAACATTCAT  
TTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAAC  
CTTAGTTTTCCAAAACAAAATGTTTAGGGCAAGAGTAACATTATTTACATTATTGCAT  
CTCAGTAAAAATAAATGGCAACAAAATCTTATATCTGCTTCTGCAGTTAATCTGTTCA  
TTTTGTTTTGGTTGAAGTATATGAAGGAAATCTGTCCTCACACAGTTGTGTAGTGGAAAA  
AGGGGGACTATTGTAACAGGGCTGTGCACATAATTGTGGATGATTTTCTTTGATACAACA  
ACAAAACCTTGGTGGAT

Sequence 1279

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGTGATTTATCAATTAATTAATTTGAATT  
CCATGGAATGAAATATAAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAA  
TCATTAATAATTTGATAAATTAATGGTCTGAATGGTTAGCCATGTTCTCCGCATTTAAA  
TAAATAGTATAAACATAAATGAAAATATTAAGTAATTTCAACGTGATAGAGACCGCTTA  
TTTTAGTTTCAGGTAGAGTTCCAACCTAATGGTAATTAAGATTCCAGATCCGAAAGATGT  
CATGTGAATATTGCTCTGAAAAACCAAAATTAAGCTTTCTTAAAG

Sequence 1280

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGAAGGCA

Table 1

ATTTAATAAGATTTGAGCATAGATATTAACTTAGCATGGACAGAGAACTTATTTNTTG  
GGGGACTGGCATAAGTGAAAGAACAGAATCAGTNTGACCAGAGAGAGCATAAAACTTT  
Sequence 1281  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTGACTTTCTAACAAATTACCATAAAGGA  
AGAATATTTTTCGTCTACTATTGTTAGAACCCTTAGAACCATCAAAAATATAATTACAT  
GGCTAATAGAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACTATTTTCATTGTT  
TTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGGTCTCAATTTCACT  
ATGAATAAAAAAAAAAAAAANGAAAAAAAAAAAAAGTACCTTGGCCGCCGACCACGCTAA  
GGG

Sequence 1282  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCTTATTTTCTTAATCAATACAGCTAAAG  
GTTTGTCAATATTGTTGATCTTTTTAAAGAACTAAATTTTGTGTTGATTTCCTTTA  
TTTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTAGTATTTCTTCTCTGCTGTA  
GCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGTTACGCTGTTGAAATGAGA  
TCTTCTTATTTAATGTATGCATTTATAGCTCTAAATTTTCTCTAGCACTGGTTTCACTG  
CATGCTCTAAGTTTTGATA

Sequence 1283  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTA  
ATTAANAANCNGANTTGGTNGGTTNCCCAAGCTNGNNTTGAANNCTGGGNTTAAACAA  
NNANNCTNGTTTGGCCNCCAAANNCTNGGATTANNNGNNTGAACCANCNNACCCANNT  
TTTAAANCNNAATNTTTTTNNGGNAANNTNANANANCNNNCCCAAGGANTTAAANGGGN  
GGGAAAAACNTGGANNTTGGNTTTTTTTTT

Sequence 1284  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAAATAACAAGACAAATTTGACCTGTTCAA  
TAAATAGAAATGAAGTGGCTAAAAATGTTTAAATGGAAGTGGAAAACAGTCGTC/TCTTT  
GTACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTTGAGTAGCTTCTCCTTTTTC  
ACTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGCAGACAATCTTGACTGAAG  
CTGTTGACAATCTAGGTCTTTTTGATGAAGGTTGCCTGAATATTCTTTTACTCACAGA  
TTCTTCATTATGTTTCTCT

Sequence 1285  
CCCTTANNTTGGTCGCGGCCCGAGGTACTTTTTAATCTTATTATTAACTAACCCTGTG  
GTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAAGAAATTGCTCATATCTTCCC  
AAATTGTGTAGTATAAAAAGAATGCTGTCTGTTGTTTTGTAGAATATGGAAGTCCC  
TGCAGTAAGTAGGCAACATGCTACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTG  
GGACCTTTGTGACACATGATTCTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGAC  
ACCTNCATCCACACCCACAGCTCANGTTAAGCTGCAAAAGTTACACATCTTCTCTAGGCC  
ATACACCCACGTAGCATCTTCTCTAATGGTACCTGCCCGGGCGGCCCGCTCGAAAGG

Sequence 1286  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAGGATGTGATCAACAAAGTTCTATTTTAC  
AGGAGTATGATCCTGTGATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCA  
GCTGTTCTCTTGACAGATCGAGAGTGAGGGTATTTTGTGACATTACACAGCATCAGGA  
GCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAATTTATTAAAGACA  
GGAACACAGTCAATCTGTAACATCAAGTAGCTCTACGTTTACTTGAATTCACAATCCCT  
AACCCTCTGTCCCTGGCAGAAAGAAGGAAAGATGACATGCATGGACAGTGAACAGAAAG  
GGATGAAAGCCAGGATTCCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGT  
CACAACCTATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAGAGAATAAGCCTG  
AAGTCACCTTCCACTNAAAAAGCAGCCAACTCCCTCAAAGGAGTAACTTTTAAACCTG  
GATCTAACCTGGAANGGGCTAAAAANTGGCTTGTTCTGAGTTTTTTTT

Sequence 1287  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTG  
CTTTATTTCCAGTTTCTTGGACCAGAACAAATAAAATACATAAGACATCGTTTCTATATG  
GTCATATACTATAGAAATAAAGAAATTGTTATGTAAATTATTAATGAGTATACAGACCT  
TTACATAAAAACTAAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 1288  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTT  
AGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCC

Table 1

TTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGGTCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCAAGTACAGCAAGACTGTTGAAGAAAAATAA  
ACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATCTGTT  
GTGTTACAATGAAGTATATCATCACTGC

Sequence 1289

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGT  
GTATTAGTCCATTTTCACACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAA  
AGAGGTTTAATGGACTCATAGTTCATGTGGCTGGGGAGGCCCTACAATCATGGTGGAAG  
GTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGCCAAGCAAAAGGGG  
AAACCCCTTATGAAATCATCAGATCTCGTTAGACTTATCCACTACCACAAGAACAGTGTG  
GGGGAAGCACCTCCATGATTCA

Sequence 1290

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTGGCATGGATCC  
TACATCCACAACACTACACATTATTTATTTATTTTTCGAAATCCCAATTCCTCAGAA  
ATGGTCCTCACCTCATTGACATATGCAGGAAGAGCCAAGGGGGAAACAGCAACTTGGA  
TGACTATGACAGACTAACACAAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGG  
AGAGGCCTCTGGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCA

Sequence 1291

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTNTGNGGNATGGATCC  
TACATCCACAACACTACACATTNTTTATTTATTTTNTGCAATCCCAATTCCTCAAAN  
ATGGGCCTCACCTCATTGACATATNC

Sequence 1292

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTA  
ATTCTGAGATTTCCCAAGCTGTGGATTCTTCTACTCCTTAANAAAAAACTTTGGTTT  
TATTTAACATCTACACCTTTTNGTCAGTTGTGTTAGCGTGTTCACCCCATTTTATTA  
TACTCTTAAAGATGTAATTGTTGTCAATTTTGAACAGTTAAACATNTTNGTATAAAA  
AGAACCCCAATGGTTTTAGTTATNGCTTTGTAATTTTTATTTTTANTTTTACCTAAAN  
AACTTTCAACTAATCAAATAAGGGAAAGAACTGTCTTTT

Sequence 1293

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGTTTAAGGACATACCAGAAAAAAGTAT  
TGATTTTTATCCTATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTC  
CTGAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAAAGGGAAAT  
TTCACACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAATACAGTAAGTCTTTTAGTC  
AGATAAAATTAATAATCTTAAATTCATTCATGTTAAAGAAGAAAGACAATTAAGAAATC  
TGACACTAATCAGAAGAAATTAGGAAAACGAATAAGTAAAGAATCTGAAAGGAGAAAT  
AAAA

Sequence 1294

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTC  
TGGTTTTGTGTGCTNACATGTCTTCTTGGCATGAGAATGTTTAATTTGGAANTAGTGGN  
CNCTCAGAGCCNTCCTACAAAGGCAGTGGCAAAGCTTCNTTACCGTGACATTTGTTNAGT  
ANTAACTTTGCCTNNGGCACGCGNCNTCCTGNAAANTGTNTTGTGTTTGGGCCTATTTCT  
TGCTGAGNTNCCCTTTANNGGNTTGTNCCTTCGNNTTTTTCATTCNANCTAATTTNGCC  
TCCCATATNGAACANATTGGTAATTTCAACNATGGGNGNGNCCAACNTTGGCTTTTTT  
CTTTTTTNGGACTATGNCCCCCTAANTAACNACCCTTGGGATNCAANTNGTNAANTT  
TTCTTTTCTTTTCTNNNGGNGGGGNGCCTTNCCTTNNCAANNNGGAAAACCCCAAAA  
ATTTNTTTTTTNGGCCNANCCNTCCAANCAAAATTTTTT

Sequence 1295

CCCTTCGAGCGGCCCGCCCGGGCAGGTACNGCGGGCTCTCTCCATGGGTCTGTGTTCCAGA  
AAGCTATGACTCTTTAATGCATCTCTTAGTTTTTCCCTTATTTCCCTTATTCCTTAGTATC  
ACAGTCCATGATATCCACTGTCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTAA  
TCAAAATACCCCTATTTGTTATNTTTTTAAAAAGTAAAGTGGGGGATG

Sequence 1296

CCCTTCGAGCGGCCCGCCCGGGCANGTACAATGCACATGCCGAANGACCTTANTNTTGA  
TGTGATGAAATGTTTTCTATGCCTGGAATAAATGCCCTTNCCTTGGGNTGTAATATCTTAA  
ATACGTATTGCTCCTCNATCTGTGAGTATTTAATTTTTTCTCTGAAGNAGCTNTGATT

Table 1

TCTGGGCTTTCTAGTGTGATCATCTA

Sequence 1297

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGCATTTAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCA

Sequence 1298

CCCTTCGGCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCCTCTTNGCAGA  
GACTGCTCCATTCCATTAAAAGGNGAAGGTTCAACTGGANACCTNCAAAGTTGGCTGGGC  
CT

Sequence 1299

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCG  
GGCCTGGTGGCTCAACGCCTGTAAATCCCTGCACCTTTGGGAGGCCGAGGCAGGTGGATCAC  
GAGATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCCTGTCTCTACTAAAAAT  
ACAGAAAAANAANAAAAAAGAAAAANGGTCCTTTGTNTACTGCAGTTGTCNTNTAC  
ATGGCATTGGACAGGACATAATTGTAAACATAAAAAAGTGCAATTGGTTACACTTACATN  
TGATAGTGAATTGGCAAACGTGACCAATTTTTT

Sequence 1300

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAAAAAATCATTAACATATATTTCAA  
GAGTAGGAAATGGGAAGTGGTGTAAACTCTTATAACATATGCTACTGNCTTAAGGGAC  
AGTGTTTTAAAAACGCATACCTCGGCCGGGCGGGTNGGCTTCATGCCTGTAATCC

Sequence 1301

CCCTTCGAGCGGCCGCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TNTAAGATATAGATTTAAAAGCATTNGNAAATTGTATACTGCAGTGTCTGCTACATGGC  
ATTGGACAGGACATAA

Sequence 1302

CCCTTGAGCGGCCGCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAAGTCGTGGGA  
G  
ATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACAGACAGACAGGCATGTCGTTG  
CAGCAGTCCGTGAGACCTGTGTGCCAGTCACTGAGCTGGGTCTGGTAGCAGCTGGTGGTG  
GCGCACTGGGGCTGACTGGTCACAGGGTAGGACATAGCTTTGCCCTTTCACGTTGTCGTGC  
ATCTCAAACATGCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCCT  
GTGGCAACAGTGGCAGNAGTCTGTCCAAGGGGAC

Sequence 1303

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAAAAACAAACATGGAGTATGTCCTGTTG  
GTAGAAAAATTTGAGCAACAAATAAATAAAGTAGTATAGGATTATGACCCCAAGTATAA  
AATAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATATAACGGA  
GAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAATTTATAGACAGCTCCCCT  
TTAAGAAAACAGACCTACTGAGTGTGGTCTACAATTAATGCTCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCCGAATTCAGCACACTGGCG

Sequence 1304

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATTAAGCCAAACTTCAGCAAAAAGGAAG  
TGCTGCATTGNAGCAGTATTGAAAGTTATGTAGGTGGATTTTAAAAAATATTACAGCC  
TAAATTTTCTTAGCAAAAGTCAAATGAGTAACAACACACAGTTTGGAAACATTTGNAGAG  
GAGAAAACAAATATCTGACAAGAGTACCTGCCCGGGCGGCCGCTCNAAGGGCGAAT

Sequence 1305

CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAAAACCTGGACATTATAACATTAATTTT  
ATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTC  
GCCTTCTCTTCTGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGAAG  
ACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAACTTCATTACAGAGGACC  
AAGCAGCGATATAATAATCCCAGGTCTCTTCAACAAAGATAAATCTTCTGACATGCAG  
ACGGAAATCAAGCTGAGGCCTCCTTATCAAATTTCCATGTGCGAACTGGGGTCAGCCAT  
GGAGTCACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCAC  
CAGCGACTGGAACAGCAACTCTGTCAAGGATTGNAGGATTTATCCTTAATCTTTTATGT  
GGAGCTCTGAAATTTAATTCGAGGCTTTCATGCCTATANAAGGCTTCTGCCAANTGATG  
GNGAATGATTTTAATTACCTCATTGGCATTTTTTCTTGGGAACAAGCAGCCCTGGCCTTT  
ACCCAGGGTANGTTTTCTTTCATTTTNAAGAAACACCTTACCATTATTGNTTNCCTC

Table 1

AAGGGATTAAGTCTAAACAATTGGGCCTTTTTAAAATAANTTATTTAAAAACCCCCAAAA  
AAA

Sequence 1306

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGTGGAGGACACGAATTCTATACCTGTAGG  
ACAGTGCATGGAGAAAAACCTAATGCCGGCTGTCCCTCAGAAAGCCTGGGGCCAGTGCCT  
GGGCTGTCACTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAAGCCCTGA  
AGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCATGCCATTATCCCGGCAC  
TTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTGAGGAGTCAAGACCAGTCTGGCCAA  
CATGATGAAACCCGGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGC  
CTGTAACCCAGCTACTCANGAAAAGTGAGGCANGANAATCTTCTGAACCCAGGANACG  
GAAGTTTGCAANTGAGCTGAGATCGCATCATTGGACTTCCAACCTTCAAGCGAGAACCAG  
CGGTTNGAATTTCCCTTTTGATGAACTGGTCTTTTTAATGTTCCTTTAACCCATTCTTC  
TTTTCAAATTGGTTCTATTGGGTTTTTTTTCTTTTTGGANGTTGGGACTTTTTT  
AATCTACCTTG

Sequence 1307

CCCTTAGCGTGGTCGCGGCCGAGGTACCC ITGTTACAAATATACCATCATCATCAGGTCT  
GAATGGGTTTCCTCTACCCCCGACACCACCTGATATGCTAAATCCAAGTCTGGATCCTT  
TTCAACCCCTCACTCGAATCTCTTGTTTTGCCAGTTCATGGCCTTGCTAGGAGAACATG  
GGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAAGTAATCAATAGTGTGTC  
TCTAGAGGGATGCCTTGCCACAGATGCCTGAGGGGGTGATGTATTGACTATAATTTGC  
CTGAGGCCTGAGAGGCTGGCCCATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGA  
AGTATCTTAAATGACCAATAATAATGTCTTATTTCAAATATTTGGATTCTTCTTGAG  
CATTACAAAAGCACTAGAGTTTTACATTCTAATTAAGTCAAACAATACCATGCCACTTA  
CTATTTTTCTATAATTTTAAACTTAAAGAAATAAGCTATTAAATGGCTTAATTCTAAG  
TTCCTGAGTGCTTGGTGGTACACTCACTTTTTTAAGCTT

Sequence 1308

TTTTTCGCCCTTNTTNTGGNCGCGGCCGAGGTACTTTGTGNTTTTTTTTTTTTTTTTTT  
GGNCACAGGANTCCTGACTGGGAAAACCCTGAGCTACAAAAGCAAGATTTTACTGAAAT  
AATTATTTACAGACAGACTGGANATCACAGGTCAGTGAAGTCAATTTCACTGAACAGA  
GCTAAGGATCTAGGATAAATTGTAATAACAGCAAAGGGAAATTTTTTAAAGAAGAGCAA  
AACTCAAAGTCAAAACATCACATACTTTATGCCTTTGGAAAAGAAATAAAAAATAGA  
AATTTGCCNCCATCAAAATTATAATACTATTTCTGAATTCAGGGAAAAGACAGGNGNAAT  
TAAAGGGAATTAATTAATATATCAAATNTCTACCCTATTATNAACATACCAAGAAAATG  
AAACAAAAAATTAATTAATAAAACAAATNTTTGGGCTCCACCCGAAAAAGAAATNCCTCC  
AGGNGGCACACACACCACNNACCCACACCACGGCCACAACAAAAAAC

Sequence 1309

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTNCCTTCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAACCNNAANCCNTTTTTT  
TTTTNACCNAAGGGGTTNNNCTNANTAANNACCCCNNTTNAANNACNNNTTNAAAA  
NNNTTNTTANAAAAANNATTNNACCCCNNTNTNAAAAAAAAAAAA

Sequence 1310

CCCTTTCCAGCGGCCNCCNGGCAGGNACAAACCCTNGTAGGNTAATCCANCTCTAATTG  
ANNGGGGAGCANNACCTTCTGCTTCCTTTTAATCCAGATCNGAGGCCAAGGG

Sequence 1311

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAACTAAAATTATGGGAGAAGAACTATGA  
GTGAAACGATGAGAAAAACCTAATGCATGATGTAGAAGTGAAGTGGTGAATAGCAGAGC  
ACTGGAGGGAAGGGCCACAAACTCTTACCCCAAGGTCTAGAATCATTCTAGAATCATC  
CTACAAGCCTAGTTTTCATGAGATTCAGCCCTATTTATTTCTTGCTCTTGAATTATAT  
GAAATTACGAATTTCTGTGTGTTGCAGCTGTAATAGAATCCCTGGAATTTTATTACTT  
TTAATTTTGTTTTATTATTTATACTTATGTCCATCTTCTCATGAAAAAGAGGCAGTATG  
TTAAAAGTTTGAGTTCAGATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAA  
GTGTGATATATGAGAATTTCCAGAGCAGGGTATTGTAAGTTGTAAGTATTAGTCCAAG  
TTCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCA  
CGCCTGAAATCCTTTTGGGAGG

Sequence 1312

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC

Table 1

AGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACTCTGTCTAAA  
AAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAAGACAAGAAGAAGACAG  
ACAATCACTTTGGAATCTGAGACTACCTCCAAGAATCATCCACGGAAGGATGTCAGCCA  
TTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTC  
TCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAAA  
AGTAGAAGACACTGTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGGGATCTAC  
TGAGGAGTGAAATCTAAATGAAGATTTAGCTTAGAAAGCATGAAGATAGTATGTTCCAAT  
TTTAAATAAAATTTATATTGTCTGAAAGACAATACAATTTTAGTACCTCGGCCGCGACCA  
CGCTAAGGG

Sequence 1313

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGNTNNTTTTT  
TTNAAAAAAAANGGCAATTTTA  
ANAAAAAATNNAAATTTGACNNGNNAATACCAAANGGAAAGTGNNTGANCCNCAAAAA  
AAAAAAGGTTTTACNTTTTTCNAAATTTANNTNTTTANAAAAAANAAGTTTTAAAN  
TTNNGANTTTAAAACNCCTTTTNAACGNAAAAATTTTTNAAANANCTTTACCCGAAN  
TTAATATAANCNAAAAATTTNNTTTTTTAAANTA/AAATTANCNACCCNAATTTAAN

Sequence 1314

CGCCCGGNCAGGTACCTNCTTAGAAACCTAGACTCCANAGAACACTGTTTGACAACCACT  
GGAGTAGAACATAATATATCAAGATTTNTAGGAGTGGGTTTGTFTTTTCAATTTTAGATGT  
TNTAGAATAACATGCATAATCAAAGCTAATAATACTGTGTTTTCTTTACTCTTTTATTG  
CCTCTAAAGACATCCACNCATAGNGGTGAAGTGAATTTTAAATGCGTTTTAAATAAAGGC  
ATTGAAAAATATTAATAATTGNAGTTACTAAAAGTATTTCTCTTTGCGATTCTCTNATCT  
GTGTTTCCAGACCGGTTGGGAGGGGTGACAGATCAGAAGGCTCTGGTCAAGAGAATGAAA  
ATGAGGATGAGGAATAATAAACTCTTTTTGGCANGCACTTAAATGTTCTGAAATTTGTAT  
AAGACATTTATTATTTTTTTCTTTACAGAGCTTTANTGCAATTTTAAGGTTATGGTTT  
TTTGGGAGTTTTCCCTTTTTTTTTGGGATAACCTAACATTGGGTTTTGGAATGATTGGG  
TNCCATGAAATTTGGGGAGATTGGTATTAACAANAACCTAGCAAAAATGGTTTTTAAAA  
CTTTTTTGCCCGTGATTGAAGGAAGTGCTANNAAAATGCNAAAAGTGCCAATATTTTTC  
CCTA

Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCCTGGGCAACA  
CAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTATCCTCGCATTTGATAGGGCTAT  
GTAGCTTTAAGTAAGCAATGTTAGAATGAGTTGTAGAGTTTTATTTTGTGAATATAGT  
GAGTGACAGATGGCAATTACATGAGGATATTTGAACGAAGGTACCTCGGCCGCGACCACG  
CTAAGGG

Sequence 1316

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAG  
TAAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT  
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTC  
AGGCAGGTGCCCCGTCGGGAGGCCTCTGGAGTTACTCATCTTGACGCCTCGGGCTACTCA  
CCATCAGGGAGCCCCGCGTACCTGCCCCGGCGGCCGAAGGG

Sequence 1317

CCCTTTGAGCGCGGCCCGGGCAGGTACTNNCANGTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTACNCTGAGTCAAAAAATNTTTAATAGTTNCAAAAT  
TTTTTTTTTTTTTTTTTTTACAAAATCANTTTAAANANCNGGNGATTTNNCCNTAATT  
ATCAAAATNTTTNTTCTTGGGGTNTTGGCTAAGGGGGGCTNAAATAAAAAAGGCCTT  
NGANTNTTGGNTCAAAAATNTNNTAAAAANCCCCCTNTTGANNNTTGACATGCTTAC  
CCCTTATGAAAAANCCCCCTCNNTTAAAAAAA

Sequence 1318

CCCTTAGCGGCCCGCCCGGGCNGGTACTACTTTTGTTTTTTTTTTTTTTTGGATCAATAAG  
TNTATTTATGTTGNATCACACAATAGTTACACAAGCATTTAAAAACACATGCNCACNTGT  
TTATTATACCATACATACAAACACACATACAACCTTAATATTTACAAGCACATACAAGCAC  
ATACAAACATATAAACAACAACAACACTAATTNAACATACATACAATACTTACAGCTTA.  
CGTTT

Sequence 1319

CCCTTAGCGTGGTCGCGGCCGANGTACATGAAACATCAGTGTGACAGTTAATATTAAAT

Table 1.

GTCAACTTGATTGGATTGAAGGCTGTAAAGTCTTGTCTGGGTGTGTCAGTGAGGGCGT  
TGCTAGAGAAGACTAACATTTGANTCAGTGGACTGGGAGAGGAAGACCCACCCTCAATAT  
GGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAAAACAGGAGGAAAAAGGTG  
GGATAGGTGACTTGCTGAGTCTTCCAGCTTTCATCTTCTCCCCTGCTGGATGCCTCCTG  
CCCTTGACATCAGACGCCAGGTTCTTGGCCCTTGGACTCTCAGACTTACACCANCCTG  
TGCCGAGGGCTCTTGGCCCTTGGCCACAGACTGAAGGCTCTACAGTGTGGCTTCCCTA  
CTTTTGAGGCCCTTGGACTCGGACTGGGCCACTACTAGCTTCTTCTCCTCANCTTGCA  
GGTGGCCTATAATGGGCCTTCACCTTGTGAACATGTGANCCAATTCTNCTTAACAAACGC  
CCCTTCATACATACATATATCCTATTAGTCTGGCCCTCTGGAGAACCCTAATACACTCG  
ATAAAATTTCAATTAATAATTTTAAATA

Sequence 1320

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT

Sequence 1321

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTAAAAAAANT

AAA

Sequence 1322

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCTTCTTCCTATTAAGTGCCTAAACTATAG  
GCAAACTTTGGTGTTCCCACTAAACACAAGAGCCTCACACAATTAGGAAAAAAAATCA  
AAAGAAACAAGGAACTGAGAATGGAAGTTAGTGAAATCTCTGCATTTGGGAGTTGTG  
ATTAACCTCAGAGCCAGCATAGTTCCATGGAGCCCTGAAGGGAGGGGACCTCCTGCCA  
CAAAGAGTTTCGTTCCAGACGAGTCGTAGCAGTGGGTGTAAACAGCATTGGGAAGAAGT  
CAATGTCTGAAAAGTAATTCCTCCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGAC  
TACAATTAGCACCTCTAGCCATGGGGCAGGAAAAGGGGGAGGAAGGGACAGGAATGCTTT  
CTGGTCTCCTTAAGGGAACAGGGTCTACAGGTACCTGCCCCGGCGGNCGCTCGAAAGGG  
CGA

Sequence 1323

CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTAAAAANAAAAAANNNAANTNAANGGGNGNNAAAAAANTT  
TTNAAAAAANTTTNCCAATTNGGGTTTTTAAGGGAAAAAAAAAAAAAAAAAAANNNA  
ATTNCCCNNAANTTTNACCCCCCCCCNTTNAAAAAAAAAAAAANTTTTTTNAAAAA

Sequence 1324

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTTTAGTTATGGCTGTTTTTGCCTCTAAC  
ACTTTTATTTTAAAAAGAAAATTAATAAGGTTATTGGGATCAAAGATATAGGCTTTTGT  
TTACTTTGAATGATTTTGTAAATCAGAATATGCACTTGTTATTTTCACTTCTTATTTTA  
TAATTATTGGTAGAGTTCATCTAATTACCTATAAATCCCTGGAGAAAGGTGGCCCCCAT  
ATACTTTATTTCTTGGTTATATGTATAAAATCAGTAGGCAATGTAAAAATGTTTTGTG  
TGAATTTATGTGAGTTATAATTCTAATTCTATGTCAATATTCACCTCAGATTACCACATG  
AAAGCTCAGTCACCAACTATGCCTCATACTGAAATACCCACTGATTAAATCAAGTTGACA  
ACCAGCTCCTATCGTACCTGCCCCGGCGGCCGCTAAGGG

Sequence 1325

AAGCAGGCATGGCATATAANCAAGCTTTTTTTAAGGCTGAGTGACTTATGTGGCTGATAG  
AGGAAGGATAGGAGGAAAGGAAATATAGTGAAGGAACAGAGAGGAATAATAAGCTGG  
CAAGTCACAGACANCATAATTAGACTATCAAAAGAANATTTGAAGAAAGGCATGGACAG  
GAATAAAGACCTNCTTCTAAAGCAAGGTAGGGAGAGCAACTNNATGTAGATTGAANAGAA  
AAAGGAAAGAAAAATG

Sequence 1326

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTATTTACAAAACACTTCATTA  
TTTATAAGAAATTTACTAACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGA  
GGCCCTTTACATAGAAAACAGCATTCTTTTGCCTAAATATGACCAAATTACTTTATTTA

Table I

TAATTTTTGATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGAATTTACAATGAAA  
GATACCTATGCAATAACATTTAGGATAATCTTTGACATTTTGAAAAATAAGAATTGAGG  
AAAAAAGTGTATCTTTCAAGTAGATGCAAAGCATTATAATGACTGACACTTGTATCTAAC  
TCCAGTCTTACAGATACTAAGGCAAAAAGCTAAATAACAATATGTAACCTCTAACATT  
TGGTAAAAGGAAGTATACTGGTCTGTAGCAGAGACAAACTTTTTTTAGAAATTGAAGTCT  
GAAACAAACAAAAG

Sequence 1327

GCCGANGTACANGCCGNGGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGANACTAGA  
TGTGAACCTTTTACCATGAAAATGTTAAAAGATATAAAGGAAGGAGTTAAACAATATGGA  
TCCAACCTCCCCTTATATAANAACATTATTACATTCCATTGCTCATGGAAATAGACTTACT  
CCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTTTCATCCTCTCAGTATCTACAGTTT  
AAAACCTGGTGGATTGATGGAGTACCTGCCCG

Sequence 1328

ATCTCCACCGCGGNGGCGGCCGCCCGGGCAGGTACCGGAAATCTGCAGATCGCCAAGTAA  
TTCTATAATGATGCCCTCCTCACGTTTGTCTGGAAACTGGTTGTGAACCTCCGAAGAGG  
CTTCCGGAAGGAAGACATAAATNCCCAACGAGGAGGGACATNGGANCTCCACGACNTNNC  
TCCTATTACTCGGCACCCCTGCAAGCTCTTTCATCTGGGCCATTCTTCAGAATAAGAA  
GGAACCTCTCCAAAGTCATTTTGGGAGCAGACAGGGGCTGCAC.TTCTGGCAAGCCCTGG  
GAAGCCAGCAAGCTTCTGAAAGACTCTGGCCAAAAGTTGAAGAACCACATCAATGCTTG  
CTGGGGGGAGGTCCCGAGGAAGCCTGGCCTAATGAGTACCCTCGGGCCGGCTCTAAGAAA  
CTANGTGGGAATCCCCCGGGGCTGGCAGGAAATTTTCGATNATTCAAAGCTTTATCGNAT  
ACCCCGNCCGACCTTCGGAGGGGGGGGGGCCCGGGTACCCAAGNCTTTTGTTCCTT  
TTAGTTGAAGGGGGNTAAATTGGCGCCGNCTTTGGG

Sequence 1329

CCCTTTGAGCGGCCGCCCGGGCAGGTACAGAAGGTTTGGGATTGAGCATCACTTCCAGA  
GATGTAACAATAGGTGGCTCANCTCCAATCTATGTGAAAACATTCTCCCCCGGGGGGCG  
GCCATTGAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAATGGAGTANAT  
TTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAANCACCAAGATGGAAGGA  
ACTGTGAGCCTTCTGGTCTTTTCGCCAGGAAGACGCCCTTCCACCCAAGGGAAGTAAAGCA  
GAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC  
CCACTTAATGATTGAGGATCTGCAGGCCTTGGTGTCAAGTGTCAAAGGTAACCCGGTCAA  
AAAGAAGAACCACGCAGATTTGGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGGCA  
GCATTCTAAAGATGGAAGGCTTCG

Sequence 1330

CCCTTTGAGCGGCCGCCCGGGCAGGTACCGTGTGTTTGATAGTTGACTAACACTGACCTG  
TAATGGTCCTACACCCTCTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTC  
CTAAGTGTGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCTGAA  
CACTCGAAGTGGACTTCCTTTTCTGAATTGACCAGTCAAAGAGAAAGGAAAAGAAAAAA  
ATATGACCCGGTTGAATTTAGAGTATCAAAGCATGGAGTATAGAATAATTTTGTTTTAA  
AAGAGGAGCTATTAAGTTGAATGGAAGGAAAAGTTCTGGAATGCGTTCCATGTAAGG  
ATAGTAATCCCG

Sequence 1331

TATCTGCAGAATTCGCCCTTAGCGTGGNCGCGGCCCGAGGTACTGTTTGCATTAATAAAT  
TAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGCCCGCCTTTCACGGGCAGGTC  
AATTCAGTGGTTAAAGTAAGAGACAGCTGAACCCCCCGCGTACCACTGTAATCATTATT  
CCCAATGTTATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAAGTATGTTAT  
GGCCATAATATGTTGTTGATTGATGGCAAANGGTGATGTGTGAGTTATGATCCTGTTTTT  
CTCAAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAATGANGATAGC  
AAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTG

Sequence 1332

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGATTTTGAAGCCCTCTATTTAAATTC  
CCCAGAAATTAATAAGGAGGCTTTGGAGGGAGGAATGCCCTANACAAATTGTGGAGTGG  
GTTTGTGTTTATGGAGATGGTCTTTAAAGTCTAAATTTGCCCCGTTTTATTTTTGCC  
CAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTCAAGCCTACAGCTT  
TTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTTCCATTTTATGCAAGAGAGAGAAA  
GGGGAAAAATATACANACTCGTACCTCGGNCGNACCACGCTAAGGGGCGAATNCCAGCA

Table 1

CA

Sequence 1333

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTAATTCATTCTACTTTGTGTTAACTATCTT  
TTTATGTGTAGGTCTCATCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATC  
CATGCATGGAACCTCCCATAGACATCAACCAATCACCAATAGACAAGCCTTAGAACATGTA  
TTACAGGAAAAATAGAGTAACACATACAACCTAATACAGAGGAAGAACANTTGACATTAA  
ATAGAANAANAATTAACACTCTTTGGANTCTATAAANAATGNAAACAGAAAGAAAGAT  
NGAAGGATAATNCGTNAACCTAGAATATTCATTTGCCTGCTTCAACATTCAATAATTAA

Sequence 1334

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTTCAACAAAGTTTGTTCTTGATTAAAAA  
AAAAAGAATGAATATCTAATGTATAAACTCAACTTAGATTTCCAAATCTTGCAATT  
CATTCACATTTGTGCTTCTTTCTACACAGCTGTCATTACATTCTAGGCTTGATTTCA  
CTATGTAAATGGGAATTTAATCTTTATAAATGAGGCATTTATGTAAAAA  
AAGTACCTGCCCGGCCGCCGCTCGAAAGGGCGAATTCCAGCACACTGGCG

Sequence 1335

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATAAACAGCCAAAGAAAATAACAGTTAG  
CACTTAAATAAGAATCTACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATT  
ATATATTTTAAATGACTGAGCTACAGTACCTCGGCCGCCGACCACGCTAAGGG

Sequence 1336

CCCTTAGCGCGGCCGCCCGGGCAGGTACATCTATCTGACCCAGAGTTACCCTTTTCTATCA  
TGCCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGAAAGTCTAAGGTTTTCTATCA  
GGATTGGGAGTTACCCCAACACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTG  
CCTCAATCTGTTGATTCTTCAGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGA  
GCCAAAGATTACCGTATTGAACTCTACCAAGGCATCTGGTGACTAGAAAACCTCTGGAAG  
GTGGTCATAGCAGAAATTGTTGGGAAAGTTCTCAGCATAATAAAGAGAAATTTTATTT  
CCTTCATTGATCCACTCTACAGGGAAAAATAAATGGCANATGAACCCATGTATGTCANA  
CTCTGNAATAAACATCAGTGAGATCACAGTGTCAGNGAAATTTAGCCTGAATTAA

Sequence 1337

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGCAAACCTT  
ATAAATAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACT  
GAGCATTTTCCATTTTCTCCTANATTCTTAGGAAGCCTTTGTATCTGCGATATAAGTTA  
CTTTCTCCTTTTGTGATGTTGTTTAACTTTGCACTTTCTTTTAAACCTGCAGTAAA  
TTTTAAATCTTTTCATTGAGTCTTCTGGTTTCAAATCACATACAGAAAGTCTCCCG  
AGTCANAGGGTGTGACCACAGACTGTTCTGGTGCTTCTATGGCTTCATCTTTTCACATT  
GAATCTCTGACGTAGTTGGAATTTATTCTGGNCTATAAGGANCCGACTTTATTTTAAGAA  
CAAAATTTTTTNAACAAATGGTAACTTAACTCCTAAAGGCAGATTNT

Sequence 1338

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTGTTAAAGATTTTAAGAAGGCATGGGAAT  
ATGAATTTCTCACCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAA  
TCTAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAACATATCN  
GGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAATGAACATTGGAATAAAGTG  
CAACAGAGTTTCTAAATCATTGNTCTGCTCTTTAACAAAAAANATTGTAAANGGTT  
ATAAAGGNTTATAANAATCTTACC

Sequence 1339

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTAAAAATTTCCACTATCAGAAGATCCTGATT  
AAAAATAAGAAATACATAAACTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTC  
GAAGATCTATGGGTCCCACTGCCCGCCACACGTAGTCTCCTGGGTTCTCAACGAAGTGTG  
ACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCA

Sequence 1340

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA  
CTATTTCCCCCTTGTCATTTAAATTTTGATTTGTGCTTCTCCCGCTACCTGCCCGG  
GCGGCCGCTCGAAAGGG

Sequence 1341

Table 1

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTGACTATTTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACTTTCCAATTTTGGAACTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCTCTT  
AGTAAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTGCGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATT

Sequence 1342

GGTCCGTGGTGCGGGATCGAGATTGCGGGCTATGGCCGCCGAAGGTTTTTCGTCACTACT  
GGGATATCCCCGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGCTGGCCTGACCGNCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCC  
TTGAAGGAGTGGCTAAGGTTGGACAATACAGCTTCACTGCAGCTGCTGTGNGNGCCCGTG  
TTTGGCCTCACCACCTGCATCAGCGCCCATGTCCCGCGAGAAGGCCGACGCCCCCTGAAC  
TACTTCCTNGGTGGCTGCTCCNGANGCCTGACTCTTGGAAACACGCACGCACAACTACCN  
GGATTGGCGCCCGACGNCCTGCGTTGTACTTTGGCATATCGGGNCTTCTTGGTCAAGAATG  
GNCNCGGNTTGGAGGGGCTGGNNAGGGTGTGTTGNAAAAACCAATGTTNAGCCCTTGTG  
CCTTGGCGGGGACCTTTCAGCCCTGCAATAATGCGTCCCAGAAATAAAATNNTGTGGTCT  
TGGTGTNNGAAAAA

Sequence 1343

CGCCCCGCGTCCGAATGCAGTGAAAGTGACACTGCCTGACCTTCAAGACTAGATCATCAA  
AGGTGCTACAGCTTCTGCTTTGGCTTACCCTCTCTGTCGTGGGACACTCACCCTTGGACC  
CAATCTCCACACTGTGAGAACTTCTATGCTACCTGGAGAGGCCCTTCTATAGATATTTAG  
TCAACAGGCCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCAACATGTGGGTGAGTGAAC  
CCTCAAATGATTGCAGCTCCCAGCCTTTGAGTCTTCAGTTGCGGTCCAGTCATTGAAAC  
AGAGTCAAGCTGCCCCCGCTGTGATTTATCTGAATTTCTGACCCACTGGGAGCATAATAA  
ATGATTGTTTTATGTTNAA

Sequence 1344

GGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGGTGGGCATGATTCCAGTCAA  
TGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGAGGTATTGTTT  
GTCAATTGAGTCTTCTCTCANAATCAGCGAGCCAGCTGTAGGGTGGGGGCGAGGCTCCCC  
CATGGCAGGGTCTTGGGGTACCCCTTTTCTCTCAGCCCTCCCTGTGTGCGGCCTCTC  
CACCTCTNACCCACTCTCTCCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGG  
TTTTGGGGTTCAGGGTGCCTGNTGTTTCCCTTTNCTGTNCCCAGGTCAATCCAAACCCTT  
CTGTTATTTATTANGGCTGGNNGGAAGGGTTTTTCTTCTTTTTCTTTGGAACCCTGCC  
CCTGTTCTTTACACTTGCCCCATTCTTAAANCTCATACAAGAATTTNCAATCNATNGGG  
GGGATATGGGNTTGAAGCAAAAAGGGGCTTCNTTAACCCCGGGCAAGGCAAAAANGCAA  
TTNGGTAAAANGGANGCACCTNCCCCCTTTTCTTNGNCCCCTTNCCTAANTTTTNAATA  
AAANAACCGGGTTTTNTANTTTTTTAAAAAAAACCTGTTTTNTTANCAAAAAA  
AAAA

Sequence 1345

TAGCANTTCAGCCCTGACCTGGGTCCGACGCTCCAGGGCAGGGGCTGGAGTGGGTNTCT  
CAAATTAGTGCTAATGGTGGTCANAATGACTACNCAGACTCCGGCCCATC

Sequence 1346

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGATTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAAATTTTGAACAGAACTGAGTGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAAATTGGCAGGA  
CAAAATCATAGCTAGAGATAAAATTTAGAGTTTACCAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAG  
CACCAGGGGACTTCAACATTGACAGGCTCAACAGAGGAGAATCCCAAGAGGATGAGGT  
CCACCTTTAGGACCCGCCAAAGAAGACTTCCAGACAAAGTACCTGCCCGGGCGGCCGCT  
AAAGGGCG

Sequence 1347

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTT  
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGCTACCTGCCCGG

Table-1

GCGGCCGCTCGAAAGGG

Sequence 1348

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTACTCTGTAATATTGCTTTCTATTAAAG  
GGTGTGGTTTTTTTTTTGTTGTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTGAT  
GTTGGTTCAGCTTAGTGGTTCTCAACCCTGGAACAACCCGTANACCCACCTGGGGAGCTC  
TTAAATTATCAAGTGCCTACCCACCTTCCAAGATTCTGATTAAATCCTGTAGTGTTT  
TTAAGGCACCCAGGTGATTGTAATGTACCTGCCCGGGCGGCCGCTAAAGGG

Sequence 1349

CCCTTAGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTTTT  
TTT  
NAAAAAANGGNTAAANNAANTTTTTNTTNCNCCCNAAANGGGAANGGGGNTNAANTNN  
NAAANNTTTANNTTTTGGNAAAAAAAAAAAAATNNNANTTTNAAAAANCCNCGGGGNGN  
TTTTTTTTTAAAAAANNNNTAAANANNTTTTTTNGGGGGGGTTAAANNTTTTTTTT  
NNGGGNCAAAAAAANNNNCCCNNTTTNNCCNNTTTNAAAAANGGAAGGGGNNNNN  
NTTTTANNTNNCNNTTTNAAAAAANNTNNNANGGNNTNNNNTTTTTTTAAANNNAAAN  
NNNNNNNGGAAANNTTTTAAAAAGGGAAAAAANGGTTTTTTTTTTNNNGNGGC  
CAACCCNNGGTGGNGGAAAAGNNACNCCNCCNAGTTTTNCCCCTGGNGGAAAAAGNTTT  
TTTAAAAAA

Sequence 1350

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAA  
ATGTAAATATTCTATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTA  
ACAACATTTTGTACTATAATAAACTATAATATTGATGTCAGGAATCAGGAAAAA  
AAAAAAAAAAAAAAAAAANGTACCTGCCCGGGCGGCCAAGGG

Sequence 1351

CCCTTCGAGCGGCCGCCGCGGCAGGTACAAGTATTATGTATCCATAAAAATAAAAAAT  
CTTTAAAAATGCATATGGGGTCAAGTAAAGAAAAAGAGAACCAAGAGCTGCAGC  
GGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAAAGGC  
CCGGCATTGCTGGAACCTCTAATATTTAAAAGATGATGGAACTTGAAATTTTATATT  
AATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGTC  
AAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAGCTGGCCAGTTTGAAAAGTGAATC  
CTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTTGCTTTGATTCCTGCCTCCTGCTC  
AAAAAATCTTCAATGGCTCCCCCTGTCTGCAAGGNAAGTCC

Sequence 1352

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACA  
GNTATACTCGNGGAAAGTTATTCAAATTTCAAATTTATTTACAGNGTTTGAAAAGCACAC  
AACAGAAGATCTTCATTTATGCAACAAGTCAATCATTGTCAGTATGTATGGAAAAATAAA  
ATCTAAGGTAAGTCAACATACAACTCTACCTNTTGCTTTCTCCATTANAATATACACA  
TTGGAAATCTAAGTTCAAACAGTTCTTNTACTGAANATAGTGAAATTTAGTGCAAGC  
CCCTAATTACCAATTTTTTG

Sequence 1353

CCCTTCGAGCGGCCGCCGCGGCAGGTACATTGGTTTGATCTGGAAAGGCAGGACAACCC  
AAAGCGGGCTGGGGACAGTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCTGTTGAA  
GAGTTTATCTTAAGACCTGGAATCAATACAAGGGAGTGTCTGGGTTAAAAATAAGGGG  
TTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGCAGGCTTCAGAGAG  
AATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGGTCCCAGACTCCTAGTTAATTTTC  
TAGTGGATCAGGAAAAAGACCTGGACAGGGAAGAGG

Sequence 1354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTNGTTTTTTTTTTT  
TTT  
TTTTTNTNTNTNTTTTTTNNANTTNAAAAAANNNNANTTTTTTANNN  
NANANAAANNNNATNAAANNANTTTTTNANAAAAAATTCTTANNAAGGGGGGAAA  
AAAAAANNTNAAAAAANTTTTTT

Sequence 1355

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTAT  
AGTTTATGAATGTCTTGTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAG  
GATTGGAAGTTGTATGGATTTTTGTTATCTTCACTTTACTGCATAGGAAACAATCTAC

Table 1

CTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTGTCAGGTT  
TAATTTTCAGTTAAACAAATGTAAACATGACATTCCTGCAGATATTGTTGTATACCAGT  
ATGGTTTCTTCTCTTTCTTTAAATGTTTTTGCCATCAAGTA

Sequence 1356

CCCTTCGAGCGGCCGCCCGGGCAGGCACTTTTTTTTTTTTTTTTTTTTTTNGTTTT  
TTTNA  
AAAAAAAAAAAAATTTTTNNAAAAAAAAATTTTTNTTNNNTNAAANTTTAANTTTTTNAA  
AAAANCCANGGGNTTTTTTNAAAANNTTTTTNCCNGTTANGTTNTTNAANNNANTTG  
GGGGGGGGNCTTTTTNTAAAAANGGNNNNNCCGNCCGNAAAAAAAAN

Sequence 1357

CCCTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAG  
GAACATAATTCAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1358

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACATGGAAATAAGTGTTAAGAAAAGGATTGC  
TTATTGGTAGCATATAGATTTAGAGTCAGGAATGATGGTGATTTCAAACAACCACAGAAC  
GTCCACATGGGTGGCTGGCCAGGATAGTGACACCTTTGCTTTCTAATGGCTTAGTGACC  
TGCCCGGGCGGCCGCTCGAAGGG

Sequence 1359

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAA  
TCCCTTTATTAATAATGTAAAAAGCCAAAGCAAGATAGACGCAGATATGTGCCAAATA  
TGTATTTTTTTTCTGGAACAAATACAAGAAATGTAATAACAGTTACAGTGAGAGGAG  
CCTTTGACATCTCTTTCTAAACTATTTGATATCATTTGTATACTAACGATGTACCTGCCC  
GGGCGGCCGCTCGAAGGG

Sequence 1360

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGGCCTTCTTGTTATTATTTCAAAGA  
AAGAGACTTGACGTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAG  
GTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTAATATCAT  
TTGTTTCAATTCACCAAGTTCAGAGGATTGGGGGTGATGGGCACAACAGAAATGATGGAATA  
TAGGCCAAATGTTACAAAATAGATAAAATTACCTGACCAGTGAAGTGTGTTCCCTCAGTCG  
CCATGGANCTCAGATTTGAACTCCCAAAAAAAAAAAAAAAAAAAGNN

Sequence 1361

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGCTTCAGTGTGGTTAGTAACTTAGCCT  
AGGAGGCCAAGATGTCTCCCTAAACTTAGTCTCTGTCTTACTTTGTTTATAAGAC  
TGTGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCAATGGACCC  
AGGCCTTTTCCAGTCAATCCATGTCCAACCCTTCATCTCCAGCGTGATCACTCAACTCT  
TCAACATGCCTGCTTGCTGCAGGNTTAAACACACCCACCATCCTGTGCTTNCCTTA  
ATCGCCCATTTGATGCCCCGCANGGTAAATAAACTA

Sequence 1362

CGANGTACATGAAATGGCTGTTTTTCCCACATTANTCAGCTCTGGATTTTGCATGTGT  
GGGGCTTTTTTTTTTTTATAGTATTGTTTTTATTTTAAAAATTTATTTNGCCAA  
CCCAGTANAGAACAGCTGAGCATNTTCTCATGTATTTATTGGCCATTTGCATTTCTGCTG  
CTTATTGGCCATGTATTTATNGGCCATTTGCCGCTGCTGTGAAATGTCTTAAATNTTT  
GCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTAAAGA

Sequence 1363

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTC  
ATAAGATATAGATTNAAAAAGCATTGTAAATTGTATACTAGCAAAAGTCGTCTANATGGC  
ATTGNACAGGACATAATGTAAACAT

Sequence 1364

CCCTTAGCGTGGTCNCGGCCGANGTACTTAACTTTTTAGCCTACTACTGCACACCTAG  
GCTATGTGGTATAGCTACCTTGATATGTGGNCTGTCACTGACTAAACTTNGTTACACA  
GNGTATGACCCTACTATTCANCTTGAGAAGATGGAAATGCTGNCATTTGCAACAATATG  
GATGAACCTGGAGGACATTAAATTAANTGAAATANGCCAGGCACAGAACGACAAGTAACA  
CATAATC

Table 1

## Sequence 1365

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTNNTTNACTTNATTN  
TACTTTAAGTTCCAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGC  
CATGGTGGTTTGTGTCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACATGCATTAG  
GTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTTCTATAGGNCAAAACAAAT  
TTGGGAACCAGAATNGNCTACTGTCTTATATAAATGATCATTACGATTGGGGANGAGGG  
TTTTTT

## Sequence 1366

CCCTTCGAGCGGCCGCCCGGGCAGGTACCACAACGTTTCTACTCTATTGTGTAAGCTTT  
AAATACAAAATACCACAACCACTCCCGGACTCCTCCATTATTCAGTAATACTGGCTGC  
CCTAGTTTTTCAGGATACATCATGCAATAAGTCTTTTTATTTTTCAAATTATTTTTATTC  
CTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAAGTCACAAG  
AATCTTCATTTGTTTCTAAAGTATATAATTTACAAAAGTTGTTTTACTCAATGTGAATT  
AAAAATTTGCAAGGTCTAAAAAATAAAAAATTTTAAAAAGTAAAAAAA

## Sequence 1367

CCCTTCGAGCGGCCGCCCGGGCAGGTACAAATATATTATGAAGCATGACCACTTTATTTT  
GAACTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTAGCATGTCAGTATTATTTT  
AGTTAGTTTTATAATGATTTTTAAAAACATATCTATTTGGAATAAGATACAGCAACAAT  
CATTGCTATTGACTTGTTCACCCCTTAGTTACACTGTATGATCAACATATAACAAGATA  
CAGTGGGAATGGCCCATACAGTATATTACTGTTGTGTGATGATTGGCTTTGGAAGCAGTT  
TGATTTTGAAATGCTTTGATATTCTAATTGACATGGAACAA

## Sequence 1368

CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATACTTTTATCAC  
AATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTCAGTCTCAAGAGGTTACTGCA  
TTTCAGTTCTAACTAGACATTTGTACTTGTGATCACACTACGGGAATCTCTGTGGTATAT  
ACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGAAAATCAACCTTTTTATTGGG  
GGGGAGGATGGGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATTTATAGAATATTTTGA  
AATCTATTTTAGNGTTNGTTCGNNTTTTAACGGTCATTCCCT

## Sequence 1369

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTTCTCTGCCTCACGTTTCAAGCTTAATGC  
ATCATCTTAATTCATCTTTGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCT  
TACATCTCCAGAATGTTTTATTCAACAAATTGCTAATCTGTGCCAGGCATTGTTATTA  
GCAAAATGATAAGCCCTGCATGTAGCAAGTTCTTGCCCTCACTTGCATATGCATTAACA  
AGCTCTGATTAGTCCCACTTAAAAACCATTTGTTCCCCCGTCATGCAGAACTCCATTGCC  
AAGCCACACAACACCCAGCCAGTAGGGTAGCAGCTNCCTGGAGCAAGGGA

## Sequence 1370

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTT  
TT  
TTTTNNCNCNCCGGNNNAAAAAAAGGNCNAAAAAANGGNTTTTTTTTGCATAATNAAA  
AANNNAAGGGGNTTTNAANGGANTTGGNNTTTTTTTTTTTTNGNCCNNGGNAACTTTNA  
AATTTTTTTAAAAANCCNGNAAAAAANTTT

## Sequence 1371

CCCTTCGAGCGGCCGCCCGGGCAGGTACTGTGCTTTCCTTCTACCTCGTCCTCACCCC  
ACCCCGAGTGAACTTTTCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGT  
TTGAACGACACAGGTTTGGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTGGAC  
ACCACCAACAAAAATCTTAGAAAAGGGTCATTTAAGGCCATAAAAAGTGCCACCTTTC  
CCAGAAATTAATTCAGAGAGAAAAATCTTATCTGCCTCCTGGCAGCTACAGCGCANAAAGT  
ACCTCGGCCGCGACCACGCTAANGGGCGAATTNCCAGCACACTGGCGGCC

## Sequence 1372

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT  
TTAAAAANCCGGNTNC  
GCGGGNANANAAGGTNCANNATTNTTNAANNNTNANTTTTANCAAAAAAACAAANT  
TTANCCCAACANNTTATTTTAAACAGCAANANGTAAAAANCCCAANCNACNTTCCANNT  
AANAAAATTTTTTT

## Sequence 1373

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTATTCTCAATGGATAATTCTATAAAATATT

Table 1

TAAAGAAGAATCAACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATA  
CCTTCCCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACAAAGATATT  
GTCCCCCAAAATAAACTAACGATCATAGATAAATACCCTCTTATAAATTTAGATGCAAA  
ATCTTAAGCAAAATATATTAGCAAAATGGAATTCAACAATGGAATAAACCTATTATACCA  
CCAAGTGGGAATTTATTTCTAGCTATTGCAAGACTAGCTTGGACCTTTTGAAATTGATT

## Sequence 1374

ATATCTGCAGAATTCGCCCTTTGCGGCCCGCCCGGGCAGGTACTGGGAATACAGGCATGA  
GCCACCGCACCCGGCCAGAAATTATAAATCTAACCAGGATTCCAACCTACAATACAATGA  
AATATCATTTCTCTCTTATAGGTTTTTGGTTTTAACCAATCTATTTTAAAAGGGGCAATT  
CAAGGATTATGGTTTATATGGNNGGATTCTGTTTGAATATGATCAAATGTTCACTGGAG  
AACAAGCAATAATTTGCAAAAGGCATATNTATGCCTTACATTAATGTGGATCCTCTTCT  
AAAAGTAGAATAAGCATCAGTTCAGTCAACCAACGGTGGGAAG

## Sequence 1375

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGATATGATTGGCCGGCGAATCGTGG  
TTCTCTTTTCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACCTA  
TCCGCACTAGAAAGTTCATGACCAACCGACTACTTTCA

## Sequence 1376

CCCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTCTTTTTCTTTTTCTTTTTCTTTTTCTTTTT  
TTTTTTTTTGAGACAGGGTNTCACTCTGTCAACCCAGGCTGGAGACAGAGCAAGATCCCGT  
CAATTAACAACAATAAATAAACAATAATGCCCAACAAGGAAGAGAACGGGAAGTCAT  
AGGCAATCTCATTCATGAACATAGATTAAAAACACCTGAAGTATATACATACCCACACCC  
CCGACATGAATACATATGAGATGTGTAATGTGAATACTTACATGTATGTATATGAAAGC  
AAACCAAAATCAACAATGTAAATAAATAAACAATNATGACTGACTGGCATTGTGCC  
AAGAATGCAAGCTACTTGAGAAAATCTATTAATTCATCAATTTAATACTTTAAAGAG

## Sequence 1377

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATAAAAAACATTCCAGTGTCAACAGCACTTT  
AAATTTTACAGTAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCT  
TTGCTATGTTTTAAATACTTAAGAAATAGAAACAAATTTAAGAGAGTTTTACCTTTAA  
AATTTATTACATAAGCTATACACACAAAATGAAATCCTAGTTATAAAAGATGCATCTAGA  
AGAATAATTTATAATAAACCAACAAAATGAGAATGTGTATCTCCAGGAATATAAATATA  
TTTAAATGTTCTCAGTGACTGGCATTGCTTTATGCATTACATAAGATAGTATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGG

## Sequence 1378

CCCTTAGCGTGGTCGCGGCCGAGGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTT  
TGTTGGAGTCAAAAAGAACCACTTGTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCC  
AGGTCAGCCACTGTTTGTACAAAATCAGGTAACCTAAGTGCATACACTTTTTCTCTTTC  
CATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAAGCTACTGCGATGC  
CCCGGGAGTTAGCCCCCTGGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGC  
TCATCCATGCCTCANAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAG  
AGCAGTTGGACTTTTTAAAAATTCAGCAAAAGTGGTCCCTCTCTTAGGGACAGTCAAAAC  
CAAGTCACTTAGGTAGTACCTGCCCCGGCGGCCGCTAAGGGCGAAT

## Sequence 1379

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGAATGGAATGCCTTGCAATATGAA  
TGTTAATATAATGTGTAAAGGGAGATTAAAAAGTTTGAATGATTATCCTAAAAA  
AAAAAANGTACCTCGGCCGCGACCAAGCTAAGGG

## Sequence 1380

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAATTTTGAAACCTCTTTGATGTCTGG  
CTTATAGAAGACACCTGGGTTCTTATATCTGCTTCTGAATCGATCTATTGTAATGNNGTT  
ATTTTGGCTGAAGTATGTTGAAGAAATACTACCTTACAAAGATATGTATTTCA

## Sequence 1381

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCCTTTTTTT  
GCTCAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTGTTTTATATAACATTTGA  
TATTTGTTGTANCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT  
TGAAGCTTTTGGATTATGAGTATGCTGACTTTTACGATTGGCTGGTGCATGTTTAGAC

Table 1

TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACANG  
AGCTGTGACCACATGCCAATATATGTGTCAAAAAGCTACATATGTTACATTCTTGGA  
GTCTCCTTAAATGTTTCAAAAATGTCAACAAAGCTTGNTTGTNTATTGGATATTTCCGA  
GATTGGGCACATTTAAGACAGTAAACGGGGAAAAGGTGGNGAAAATCTATAAGAAAGATGC  
TGTATCTTGAGAATTGGAAAAATGANGAATCNTGACATGGTTTGAAAAATCAT

Sequence 1382

CCCTTTCGAGCGGCCCGNCCGGGCAGGTACCAAAATTCATTCAAGAAGAAATAGATACCA  
GCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAAAAAAAAAAATTAGTCC  
GGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTCAGGAGGCTGAAGTGGGAGGATCAC  
CTTGAGCCCAGGGANGGTGANGGATGCAGTGAGCCATGGGTCTCACCCTGCACCTCTAGC  
CTGGGGTGACAGAATGAGACCCCGTTCTCAAAAAAAAAAGAAGTNGATAATCTTGAAT  
AGCCCTATATCTATAGAACTTAANAGTGCTGGGGAGATATAGGTATTATTATCCCTCAA  
TTTTACNAGATGGTGAATTTGAGGGTTCANAAGAAGTAAAGTCTATTGCTCAAGGTCA  
TGGTGGCTAAGAATATTGGCANANNCATGAATTCAAAATCCAGGGTTTTTTTGATTCTTT  
ATCCAAGGGGTCTTTTNTAGCAATACCCTTGGTTGNCCTNTTAAAGAATTGCANTTCC  
NTTTTTACTAANAAAATTGGTTCCCTTGGCCCAAATCNTAAATGTTCAACNTTCAACC  
CCANTTTTTTTTTTAAAGCACCTATGNNTTGGNGTTTTATCANGCATTAAATNTGNATT  
GGCTTTTGGAAANACCGNGTNTCNTNTNGGGGAAAAGGGAAAAAANTTTTTTTTCCA  
ACTTGGCCCTTCGGNCCAANTTGGGAAAAA

Sequence 1383

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCT  
GAGATTCTTGTGTATTGAGAGAATTTTAGTAGGAAACAAGGACAAATTTGCATATGAAA  
TGAAATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAACTGAATTAGTCC  
AAAACAAGTAAGAGTGGGAAAAGCAGTAAAAGTTCTTCTTGAATATTGCTGTTGTCATC  
CAAAGTATTCTTATTTCTTTAGGTGAAAAATTTCCATTACTCTTTTNGATATTCTCAA  
AAGAAAGTTTAGGATTTTACAGGNGTTCTGAAATACTGAATCTTAATTCANGTATTTCAA  
TAGAGTATTATTGATTTGCTTCTTATCAGTAGATTTTTAAANTATTTATTTCTAGGCTA  
TAGATCTTCTTAAAAATATAATCCAAAGTANNTTAAAAAGCCCGATTNTAANCCAAAGTA  
TAAAGATCTCTTTTTTGGGAGCCTGCTNTNTTAAACAGTTTTTCCCAANTTTGGGTTTT  
GTTTTTGGAAACANGAAAAATNTGGTNCNTAAAAGCCAANCTTTANTTCTATTANNA  
GGGTTTTCTCGCCTCANAAANAAACCNNTNAAAAATTTANGTTTAAATTGGGNANGGGAAC  
CCCGNGNAAAAAAAAAAAAAAAAA

Sequence 1384

CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGCTCAGCCCTGCTG  
GTTAGTATTTAGTATTTATTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAA  
CTGATCTGGCTTGTCAATTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATAT  
GATGCATATCTCATTACGATTTATCAGAAACCAAGATTTAAATTGCCTAGATTTG  
TGGTTCTTTCTCTTCTAAGTTCCCGAGCAGTCTTTCAAATACTATTTTCTAAATTTCA  
CCAAAGGAGCAACCGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAAT  
CTAAAACTAAAAGAAAACAGACACAGAGCAAGACAATAACATCACAAAGCTAAAAGCCAG  
AGAAATTTAAATTAACCAACATCCTTGTTGGAGTAAGACAGTAAATATCAGCCTTGACGC  
AAGACAGCTCTGAGCAGCTGTGGGCAAGAGGTAACCAAGTGGGGGTGCAAGGAGACTGT  
CTGCAGCTTGGGGCAGAAATGGTGGGAANCAACTTGNGAAAAGCTTCATGTTTTACAAAC  
CAAAAAGGTCAGGTAGCACCAACNTATTGNATGGTCAAATCAATAAAAGGTTACTTTCAA  
AAAAAAAAAAAAAAAAA

Sequence 1385

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAATTTTTTTTTTTTTTTTTTTTTTNT  
TTNNAAAAAANTNTNNNNNTTTTGGGGNNNGNAAAAAANNTAAAAAANTTTTNNNGG  
GNNTTTTAAANNTNAAAAAATTTTTTTTTTNTNGGNCCTCCCCCAANCATNTTAA  
ATTTNGGNGATNAAAAANAAAAANTNNNAAAAAAATTTTTTTTTTTCNTGNNNNN  
TNAAAAAAANGTTTTTTTTTNCNNAGGAGATTTAAAAAAGACTNTTTTTTTTTTN  
NCAGTTTTTATTTAAAAA

Sequence 1386

CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGTAAACAAATGA  
GTGCAGNTGTGTTCCAATAAACCTTTATTTACAAAAACCGGCAATGAGATGGATTTGGCC

Table 1

TATGGGCCATCATTTGCAAACCTCCTGATTTANAACAACCCTGCCATGAGTTCTTCCACAG  
GCTTGAAACAGGAAGCAAAATACAAAAGTACCTCGGCCGNGACCACGCTAAGGG

Sequence 1387

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCT  
TT  
TTTTTTTTTTTTTTNGTAANTNNTTTTTTTTTTNNATNTNTNGGNCNNNNNAAAAANTTT  
TTNGNGAAAAAAGNGNTTNNCNCNNNTTTTTTTTTTTNAAANNNNCCTTTTTTN  
TATNTAAAAANNNTATNNGNGNTTANGTNANAAAAATAAAAAANTTCCCNCCCCANAAA  
AAAAANCNCCAAAAAAATTTTTTTTTTTTAAAAAAAAGGGCNCNNAAAAANTTTNN  
CNCITTTATTTNAAAAAAANTTTGGNTTTTTTTAAAAAAAANAAAAANNTTNNTTTT  
TNAAAAAAAANTNCNCCCCCNCNANANAATAATTTNANCTTTTTTTTTTTTNGGGNAA  
AAAAATNTTANAAAAAATTTTNTTAAAAAGAANAANATATATGANAATTCTCTCAA  
AAAAAANGANNTTTTTAAAAANNTTTNAAANAAAAATAACTNNCTCTCCTTGGGGGG  
GGGGNGGGAANNAATNTTTTTTAAAAACATANATNTTCTATAAAAAAACCCC

Sequence 1388

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTGGTAGTAAAA  
TATCCCAATCTCTTAAATGTATAGGTGAAAAATACTAGTTTCGAAATGATTCCTTAAAA  
GCAACAATAAAAAATACTCTTNTTCACTTGAAAGAAAAAACCCAAAAGGCAGTGTTTCATAC  
AAAGTCATGAAGAGAAATTTAAATTAAGGTTTTGGTTCCACTTTGTCTGAAGTTTAACTTT  
TAACAGTTNTTTATAGGCTTTTGAAACCTACTTTGGAGAAGGAAAAAAGTAGGAATAAC  
TGTTCTTCAAAAATTTTACAAAAACAGTTTGACTCAACTTCAGTTGTTAAATTTGGGGTA  
TTTTCTATGTTGAAACAGTATTGAAATTTCTAACTTATACTGGCAGATAAAATGATAA  
AAAAGACATTNTACTCTTNANAGGATTATCAAATGCTGGTGATTCCCGGTACCTGCCCG  
GGCGGG

Sequence 1389

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTCTTTTTTTTTTGGACGGAGCATCGCTCT  
TTCTCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCACTGCAACCTCCACCTCCCGGG  
TTCAAGCTATTCTCATGTCTCAGCCTTCCAAGTAGCTGGGACTACAGGTGCCTGCCACCA  
TGCTCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGTTGG  
CCTCGAACTCCTGATCTCANGTGATCCACCTGCCTCGGCTTNTCAAAGTGCTGGGAATT  
CAGGCANTGANCCACCATTGCCTNCGCCGCTGTCAGTCAATTTCTTGGGGGGTAAACCG  
GATCCGAATTTTTGCAGGTTGCTTTTTGTGACCAAACCTNTTTTTNGGGGGAAA

Sequence 1390

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAGCTAGG  
GCTGCTGACTGAGCANCTACAGAGCCTGACTCTCTTCTACAGACAAAATAAGGAGAA  
GACTGNACAAGAGACCCTTCTGNTGANTACCCTTGCCAAGNTGTCTGCAATGCTTNGCC  
GANTTTTCTACTGATT

Sequence 1391

CCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTNGGNTGGTNGGTTTTTTAAATAACA  
GCTTTACAGAGAGATATNATTCATAATTNATAAGGNTTTAACTTTTTTTCTTTTTTAAAG  
ACAAAGNTTACCTTCTGTACATTGAAAAATCTCCTATATTCTNNGGAAGATTCTGAGCAA  
TACATTACGACCCAGGTTTGGGATTNNGCATACTATTGGANAACTGTTTCTGAAAT  
AAACACTTCAAGAATTTGAGAAAAATAAACTAAACCCGAAAACATTGAACACAAAGGC  
NAAAAAACATTTGCCTTAACATTGCANNAAAAAATTACTTTAAATCCCGGATNTGGCTTN  
GNANAAAAAANAAGNTTTTTNTTTGTTTTGNNTTNGCAAAAACTTTTGAAGGAATGGC  
ATTGAANCTTTANNANGGGGGGAACCNCCNTTCAAAGGGAAAAATTTTTTTNCCTTTNA  
GAAGGGAATTGGANCTNAAAAAANAATNTNGGGTTANAAATAAAAAAANTTTTTTT  
TTTACAAGTTNGCNAAAAAATTAANAANAACCTTANCTTTCTACCCAANAACCCCA  
TTTTTTNGAAAANTNGGANAAGTTTTTAAAAAATTCNAAAAA

Sequence 1392

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAATGTAATTGTTACATATAATTGTTGTA  
TACCATAACTTACTATTTTTCTTTTTATTTTATATATAATTTTTTTTGGTTGTT  
GTTTGTTTTTTAATAAAGTTATCACTTAAAAAAGTCTCGGCCG  
GACCACGCTAAGGG

Sequence 1393

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGCCCTACATTTCTGCCTAAAGGCAATTC

Table 1

CAGACTACACANACNGAGANGAAATGCAAATAGAGCCCANCTGTCTCTGAAAAGAGACAA  
GAGAAATCTAATTTCT

Sequence 1394

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGGGG  
TCTGTGTTGCCCAGGCTGGAGTGCAGTGACTATTCATAGGGGCAAGCATTATGCACAACA  
GCCTCAAACCTCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTGGGACTA  
TAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCTTATTTCCGTGATTCTACTT  
TTAGCTTTCTTAATATGCTGATATGTTTTGTTGGTATATCATATATTAACAAAAACAGTT  
CATCTCATCCCCATCATTNTATCTTTAAGAAGCCCCCAAACCATTTTACACATTTAGGN  
AAACAATGGGCAGGCAATAAGGNTAGNGAACATTCCATAGCCCTCTTTTGATAAACCCACA  
TCCTTACCTGNTTTTACTNGTNAAAAAAGGAATTNTACAATTGGGTTTCTGGCNCCTTAA  
AAATCAAAACCTTAACTTTTTTTTTGGGAGGGAGTTGGNGGATNCCAATAAANGCCNA  
TNNTTTTTTTGAAAATCNTTGAATGGAATTGACCTGGATTGAATTTCCCATTTAAAGTCTT  
TTACTTTATTANGGTTTTNAANACTTTATTTTAAAAATTTTTCTTAAGAAGTTNAAAAA  
CNNCTTGGGGTTCTTAAANNTTAAAGAAAACNNAAAAATTTNTCCAAAATTTTAAAAAA

Sequence 1395

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCGGAAGTGGGGTTGCGGCGTCTAAGT  
GTTTCCGGTGGATTCCCAGGGACTGTGCGAGGTGTGGACTCTGCCTGCCTACCTGGTCTG  
GNAAGATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTGG  
GCCCCAAGTTGCTCAACACGGTGAAGCAGAANCTTCTTACCGAGGTGGAGGGGACCTGC  
ACAGGGAAGTATGGCTTTTGTAAATGCTGNCACCACCATTGACAATATTGGTGTCTGGGTG  
TGATCCANCCNGGCCGAGGCTTTGTCTTATCCAGTTAAGTACTAGGTGACTTGATGA  
AAACTACTTTGTTGAGGCTGNTGGAGCAAAGGNGCAAACCTAACTATTNNTGCAATNAAAA  
NTAAAAAGTGACACATTANTAATCCTTNAAGGAAATTCATTTTCTTTTTTNTCTGGNN  
CTTCNTTTTTGAANCATGGTTATGGGAAACCTTAAGCCTGTNTTAAANNGGAGTATCTT  
TTANTTAAANNTGNAAAANNGCCTTTTTNTACTCCTTTTAAAAAATAGNNATTTNTTA  
AATNCAATNGAAATTGNNTNGGGGAAAAAA

Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTTTGAGAGGTA  
TGATTCTTTCTAGAGATTTTTCTCATGGCTACTATTAGATCAGGAATGGGTGATTGGGA  
GATTATTAGATCTAGGTTAACTTCTACCCTTTACCCTAATAACATAAACTTTTTCTTAA  
ATAAATGATGGAAGGAATNACTTGGGTTACCTGGCATTATTTTCAGTAAGAAAAAAGC  
TTTACTAACCACTACATTTATGGAAANTGTAGGGGTAAGTATTTTATAGGTCATAAAAA  
AACACCATAATATTAACGAATCTCATTTTTCTTTTAAATGTGAATTAATCCTAACAGG  
CATTCCTTTATAAAAAATGACCCATAGGCTAAAAAT

Sequence 1397

CCCTTTGAGCGGGCCCGCCCGGGCAGGNACATGTGTGCGCTTANATCATNCAACCTTTCA  
GTCACTACTATGTGTAAGGCAGTCTGCTAGGTTCCAAGGAATGTGGGGCTAAGTGAATAA  
GATGCAGCTCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACNTAACTTCCACAG  
TGCAATTGTGAAACATGCCATATGGAAGGGATAAACACTGATGACAAAGTNATTGCCAACT  
TTTACTAATTTTGTCAAATTTTAAAAGAGGTACCTTTGGCCNCGACCACCTTAAGGGCGA  
ATTCCAGCACACTGGCCGGC

Sequence 1398

CCCTTTGAGCGGGCCCGCCCGGGCAGGTACAAGTTGTAACCCCTGATTCTGTGAATGTGAC  
CTTTCTGGAAGTACGGTCACTGCAGATGTAATTAAGTTGANGATCTCAAGATGAGATCAT  
CCTGGATGCAGGATGGGACCTAACGATAATGGCTGGTGTCTTTATAAGAGAAAGGAGAAN  
GANATTTNAGACNCANACATGCANATAGGAAAGCCNCNTGGAGACGGAAGCCAAANCCTA  
GAGTGNTTAACCTACAA

Sequence 1399

CCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGGCCGAGGTACT  
TACATAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCACATAGCCTN  
TCTTTTGCTTTTGCTTCTCTCCTCTGAAGTGTGAGTNGAGTNCTCATTTAGGTTTGTAAC  
ATGGCTATTTCTAAGTTGTAAAGTNCTGCATTTATAANTGCCANTGTTGNAAGGTGGTG  
TTTCTANACCTTCCCTGATGCGATTTTA

Sequence 1400

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTT

Table 1

TTTT  
 TTTT  
 TNAAAAAAANTTNAAAAANNANNAAAAAAANNNNNAAAAAANNTTGGGGGGAAAAAAN  
 TNCAAAAAANATNNNAANTNNNAGGGNAAAAANNTTTTTNAAAAAANAAAAANA  
 AAANTTNATTTTTGNCNNGCTTANCAANTANTTTTTAAATCCAAATTTAAAAAAAT  
 TNAAAAAAANNTTTTTTAAAAAANTNNNNAAAAANTTTAAAAAANCCCCCCC  
 AAAATTTTCCNAAANTTNAAAAACCNNTNGAAAAAANANCCNCCNATNAAAAAATNN  
 AAAAAAANAAAAACCCCNNTGNNAAACAAAAANNAAAAAAANAAAAATTNNTTTTTTT  
 TAAAA

### Sequence 1401

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATCAGATGTTAAATTCCTCAATGTAATGCT  
TCTGTCATGCCATCCTACCTCCTGTCTCCCCACCCCTCACACACACCTAAAAGCACTC  
TGGGCACAGTAGTTACACAATAAACGCTAAAAGCCTGATTTAACAACGTGTATATAACAA  
ACTACTTTTATGTGACTACTATACCTCTGGGCATGGTATTAACCTATCCCAACCAGAGTA  
CCTGCCCGGGCGGCCGCTCAAAAGGG

## Sequence 1402

CCCTTTTCGAGCGGGCCGCCCGGGCAGGTACTTTTAAAAATATATTTTCTAATTTTGAAAC  
ATTCAAGCTGCGCATAATGGTTCACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAG  
GAGGATGGCTTGAGGCCAGGAGTTCAGACCAGCATGTGCAATACAGTGGGACACCTTCT  
GTATTTAAAAAATTT  
GAAAGAAATATTATAAGTGAATATCTGCATCTTTTCCCTAGGTTACCTGTCACCTTGA  
CATGCCTTCTGAATTGTACCTCGGCCGCGACCACGCTAAGGG

### Sequence 1403

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTANAANGGTGGTATTNTAACATTTATTAAAATAATGCTGGGGGT  
TAATANAAACNNCAANAAACCAANAAATTAAAAATGCAAGCTNNTTAAAAATCCCAACT

### Sequence 1404

CCCTTTGAGCGGGCGCCCGGGCAGGTACTTTAATTTTTCTATTTATGAATTGCTTATT  
TGCTTTGCTCATTTCTCTAGTAAGCTGCTTTTGTTAATTTGTGAGTAATTTATTCTAGGT  
ATCAGGCCTCTGGCATGTTCAAATTTCTAGTGCTTTGTCAAAGAGAAATTTTAACT  
TCAACATAAGTAATTTGTCATCTTTGCTTTAGTTTTGTGATTTTAAAGGACATAATAT  
CTATTACTTTAAAAGTATTGAAAGCTGTATGTATATTCTTCAACTAGCCACCTTATTCT  
GTTCTAGAGTTTGAAATTTCTTAATCCAAAAACACAATAATTTTAAAGTCTTGATCA  
AACTCTGTTATCTTCTGCATAGTCTATTTTCAGCATTCATTAAATGAATTGAGAAAAA  
GGAGGTACCTCGGCCGCGACCACGCTAAGGG

### Sequence 1405

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGGCTACAGTAAATGCTCAAGGCCCTTTGT  
TATTATTTTCAGATGGTCAAGAATAAATGTTTTTCAAGGATCTTCTTTTTGTAGACAACTG  
TGTAAGTCACAGTTTACAGTTCGTAATATCTGCCTGGCAAGATACTTTTTAAATTTAAA  
TGTAAGAATTCGAGGGGATTCACTCCCAAATGTTTATGGACAACTGAAAGGGCATTTA  
CACAGATATTTACCTTCTACATTTATGTGAGAAAGTGCTTTAAGACACTGTACCTCGGCCG  
CGACCACGCTAAGGG

## Sequence 1406

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAAATCCTGACATGCTAAAAATAAATGAATGTTGAGAACATTATGCTAAGTGAAA  
TGAGCCCATCTAAAAAGGCAAATACTGTATGATTTCACTTAACTGTGATATCCAGAGTAG  
ACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA  
TAGAGTTTCAATTTTGCAAGATAAAAGAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACCTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGT  
GTTCTTACCACAATTTAAAAAAAATTTTAAATTAAGGAATTA AAAAATTTACAAAATAC  
TATTCATCATCTGNGGTTTNCAGTTTATATTCAACACAGCAGTATTTCAGGTATAGTAATT  
AACTTACTTTT

## Sequence 1407

CCCTTAGCGTGGTCGCGGCCGAGGTAAGACCTTCTCGCCACTCTCTCCACATGA  
GAGAGTCAGCTGCCCTTTCTCCTGTGCCTCTGCAGGAAGAACTCTTTGCATGGCACATC  
TCAGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGA

Table 1

CCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAACTTGGGTGACCCGTAAT  
TTCTCTTCTCCTGCTGTCTTTTGCTCTTACGCCCCACCCCACTCCCCTTAAATTTTAC  
AGGCTTATGACAGTTTGTATGTGCTCAGCCAATGAGCAGAAAACTGGAAAGAATTTCTG  
GACTTTAGCCCACCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAATTGGCACCCA  
TTGCCCCGTGCCTTCAGGCAGTCTCCTGGGGCAGAAGTATGCCACCATCCGAATATCAGG  
CACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGCTTTGGGGGTGGGGTGGG  
GGNTNACTACTATTTTTTTTGGNCANGATCTCTTCCCCCTTTTTTTTTTTTTT

Sequence 1408

CCCTTAGCGTGGTCGCGGCCGAGGTACCCTTTATAGGAACCCTCAAATTAATAAAAAAATG  
TCTTTTAAATGGATGAGAGGGAAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTC  
TATACAATATTTTTTTTAAATTTGGAGATAAAAGCTTTAAGAACTTTTTGAGTTAAT  
ATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAATGTATTATTAC  
ATAAAATGTGTTTTTGAATCAATGCAGTTTGGGGATGAATATAATTAATATGTTTAAAT  
AACTTAGAATTCACATAATAAAATTTAGCCACACTTACAAGGGGGGAGGAAGTCCCTAGT  
TTAAATGTATAACTGAGTGGTAGATCAGTACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence 1409

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGNNTNTNNTGTTNCTATTACNNTTAATCCT  
TNCTTTNGTTGTGAGCTTGTNAATGCATGTNGAGGATNTGNAGCACTGTCCACTGAGTCT  
CTGTG

Sequence 1410

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAG  
GCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTG  
CACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAA  
AGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGTAGACCACTCCTTCTGAGG  
GAGAATCCACCCACCTTCTCCTAGCTTCTGGTGGTTGCTGGCAATCTTTGGCGTTCCC  
TAGCTTGCAGATGCAGCACTCCAATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATG  
TACCTGCCCCGGCGGCCGCTCGAAAGGG

Sequence 1411

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTT  
TTTTTTTTTTTTTTTTTTNAAGGGAGNAAGTTTTTTAATCCACTTAAAAATACAANAG  
CNCAATCCACATTTATTTATTGATTTTTCGTTAGTTTAAATCCTTGAGGGGNACTTTTT  
TTTTTTTTTTTTTT

Sequence 1412

AACTTNCCCACTTNTTTNAANGGGNGGNCCGGNAANNTTTNGGGGGGGCCCNCCCTTNCC  
TTNANGNATNANGGCCCATTTGGGNCCTTTNCCCGGNNANGGCCCGGGGNNCCCCCGG  
GCCCCCANGNTTNGGGTTNGGGNAATTNGGGGGNAATTNAATTTNNCCCTTTGGGGCCC  
AAGGGNAAAAATTTTTNCCGGGNCCCCCCTTTTTTTTTTTNCCCGGGAAGGGNCCCGGG  
GGGCCNCCCGGGCCCCCCCCCGGGGGGGGCCCAAGGGGGTTTTAANCCCGGNCCCC  
GG

GNGGGGGGNNGGGTTTGGGGGGAAAAAGGGAAAAAGGTTTTTGGGCCNTTTTCTTTG  
GGAAAAAATTTCCCCAAGGNCCCCCATTTTTNCCCCTTTTTCCGGGGGGGGGGTTGG  
GCCCAAGGGGGGAATTTCTTTAATTTCCGGGCCTTTNGGGGGGAAGGGCCCAATTTTN  
TTTGGGGCCTTTTTTTNNTTTTCCCCCTTTNAAAAAGGGGGGAAAAAATTTT  
AAANCTTTCCNTTTTTTTNGGGGGTTTNANNNAAAAANGGNNCCCCCNAAGGGGAAN  
GGGGAAAAAAGGGAAAAAANTTTTTTNAAAAAANTTTNCCCAAAGGNCCCCCCC  
CCNCAAAAAAANNTNNTTCCCCCNCNANNNANAAAAANNTATGTNTCNANNN  
NTTNGGGGGCCCNTTTTTTTTTTTTTTTTTTNGGGGNGNAAAAAGGGGNNCCCCC

Sequence 1413

CCCTTTCGAGCTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGT  
TT  
TTTTTTTTTTTTTTGGGGGNNCCCCNAAAAANTTTNNTNNGNNAATTTNCCAAANTTT  
NAAAAAATNCNGNNTTNNAACTNANNAANNNAAAAAATTTTTNAAGNNNCNTNAAA  
TNNNNCNAAAAAATTTNTTTNTNNTTTACNNCNAANNNANAAAAANTTTTTTTT  
AAAAA

Sequence 1414

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTCAATTATCTTTATCATAAACATTTTAC

Table 1

ATGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAA  
TGTGTTTGTGCTAATAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA  
AAGGG

### Sequence 1415

CCCTTCGAGCGGCCGCCGGGCAGGCACAACCTTTTCAGGATGCAGTTCTTTTCATGACCAT  
AGTGTTTTTTTTCTATTACTCTTTCACTTACTCACAGGATTCAACCCATCTGACTCATC  
TGTTCCCTCCCTCCAGACTCTTCTTGATCTTTATTTTTTAATTTACCAGAGAAGAGCAAG  
CACGTGAGCAGTGAATAACTTGCAAGGATGCAGACTTTTTTATTTTGCGATGCTACTTTT  
ATAAAAAACAAACCGTAACATAAATAACTCTTTAATGAAAACTCAGAAAAATATTAAATCT  
ATTCTTAAAAGGGTTTAGAAAGAAAGAAAGACAGCTGTTAGGTTATTTGATTTTCAAGT  
TTATCAATAAAAAATCAATAGAATTTGGCAATCTTTAATGGCATATGAATACTTCTATC  
ACTTAGTAATTAATTTGAACAGAGATGTTATTAGGGTCTTTAGTATCACTCCATCCTTTTC  
CCTCCATCTTTATACAAAAAGAACATACAGAAATTTAACAAGATATATGACTTACTCA  
TATGTTTTATAAAAAAGTATCACCTAGCANGTGCTTNCATTTAAT

Sequence 1416

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTGTTTTCTTGAGTTCCTGGGCACAGCTTTAG  
CAAATTAATCAAACCTAAGAAGGGGGTCATGGGAACACTGACTTGAAGCTGGTTGGCCAG  
AAGTTCGGATGAGGCCTGGCCTTACAAGTGTCTGAAGTGGGGGCAGTCTTGTGAGA  
CTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAGGTAGATAGCATGAGAAAT  
GAATTGGATTAGAAGGTGCTCAGCTGGTGGTATCTTCTGCAGAACTGATTGCTTCTTGT  
GGTGGGGAGAAATCCCCACACATTTGGTCACAGAAGTCTACTGTGTTGATGATTGTGGTG  
TAAGAGCAGAGGAAAAAGCAATTTGATTTTTCTCCACAAGGGGAAGAAATGTTTCATGAT  
TCAACTAATGATTATACCTTTTCATTGTAAGTTATCATGCTCAAGTATTAAATGTAGGAAGG  
CTTTTTGATGCANAGTGTGTGTGTGTGTGTGTGTATATAGTGTGTGTTGGAGAGG  
GCTAACATTAAAAAGGGAAATGTATAAGGAAGAAGAAATGGNGNTCTAAACTTAA

Sequence 1417

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCACACCTTTAAGATGGTCCTCCAAACAA  
AGATTCTACAACCTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTT  
TCTCTATCTCCTATCCTGTAACCTCAGAACCCAGACACACTACTAACATCATAACATCCAA  
ACTTGGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTGGGCACAGTGGCTCATGCC  
TGTAATATCAGCATTGTTGGGAGGCCAAGGTGGGAAGATCGCTTGAGGCCAGGAGTTTGAG  
AGGGGCTCGGGCAACATAATATGATCTCATCTCTACAAAAAAAAAAAAAGGAAAAAGG  
CAACATTAGTGGGTGTGGTATTGAGCAGCTAGTCCAAGCTACTCGGAGACCGAGGCCA  
GGAGGATTGCTTGAGCCAGGAGTTCAAGACCAGCCTGGGGAAAGTTTCTAGTGGGCTG  
CAAAACAGCATCTAGCCATTGTCTCTTCAATGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1418

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTACACCAACAGGTGAAGTTTCCTAGAAG  
AGTCGTCAACTGGTAACATGGGATTAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACA  
TAAGCAGCAAATTGCAAGAGCATCTGTAAGTCTGGGCTAAGGCAGGGGACCCAGGAGGG  
AGCAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCAGACCTCATTAAACAGGAT  
TTGGTCACGGCCCCTGGATAGTGGGGAAGCCTGTGGGGTTGTCCATGTGGTGGCTGGCA  
AGCAGGGGCCTGCTTTCTGGGGGTGCTGGTGGAAATCACTAGACAGTTACCTGTGGGTG  
CCTGCAACACTTTCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACTCTC  
TGGAAGCTACCTGGAGGGATGATGCCAAGAAATTTGCTGGGAAGCCATGCTCTGGGGAAC  
TGGTGGAACTCCTAGGAACTGCCTGTGGGTATGGTGCCACTGAAATTCAGTGNGAAC  
CTCCTTCTGNAATTTCTTTCTTCTTTTTCTTTCCCTTTTTTTTTTT

Sequence 1419

CCCTTAGCGTGGTCGCGGCCGAGGTACACATAAGTTCATTCTTGGCTTTTTAAATTTTAT  
GGAAAGACTAAATACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTT  
TGTGTAAAAAATTGTATGTGGTAAAAATTTACCTAATTTAAAATTGTTGTTCCATAATTT  
TTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGGGGTTGAAAAGTGGTGAAA  
GACTAAACAAGTAGAAGAGGATTTCTAAAGCACTGGTCTCATGAAAAAAGTTTCATGTG  
TGACTGGGTCCACTGAGATTGAAAAAAATTTGTTATACGATATCTAAAAATTTAAATGT  
TGCTGTCAAGGATGACATGATACAGGACCAGAGTCTGTGTAAACAACAAGTTTCTTAA  
AGTATTGATACACGCTTTTAAAAAATGCAAGAGGTTTATGTTTAATTCAAAAATCTGTT

Table 1

TAACAGCCATTTTGTACCTGCCCCGGCGGCCGCTCGAAAGGGCGAATTCCAGCACACTGG  
C

## Sequence 1420

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGG  
ACTATGCCTGTGGGCCAAATCTAGCCCAAGGTCTTGTTTTGTAAAGTCCCTGTGAGCTA  
AGAATAGTTTTCATACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGTGTGTAT  
AATGGGACAGAGACTTTATATGGCCCTCAAAGCTTAATTTCTTATTGGCCTTTAAAGTT  
TGCTGACCCCTGATGGATGCTATAAAAATAATTTCAACTATCAATACAAAGAAAACCAAC  
AACCCAGTGAAAAATGGGCAAAGAACTTCACCGTACCTGCCCGGGCGGCCGCTCAAGGG

## Sequence 1421

CCCTTAGCGTGGTCGCGGCCGAGGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCT  
CATGCCACCCTATCTTCAAAACACAGAGAGTTTCATGAGCCAGTCTTGCCCATCTCCAAT  
CAGGGAACTTCTAAAATAAAAATCTTAGCAATCTCCTTGCGCCAAAACCTTCACCCCATCT  
TGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATGAGGGCGTGTGGTTGGGAC  
CTGAGCATCCTCCTGGTTGGGCTAGTGATC 3GGAGAGAGGGCTGTTACTCACGACTCCCT  
CCAACAGAATACCAGAAACAGGCAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGA  
AACCAGCCCTCACCAAGTTACCCCTGTAATCCTTGCTCCCCATGCACCTCTACTTTGA  
GTCAGAAATGGATTCAATTCAGGCTCAGTTGTTGTATTTATGTGAATGAAC

## Sequence 1422

CCCTTCGAGCGGCCGCCCGGGCAGGTACCAAATCTCTTATCAGTCAGGGTTCAACCAGA  
GACACAGAACCAGTAGGAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAAACCAAC  
ACGAAACCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGACTGGG  
AGTCAAGAAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCAATTTCCCTCACCTGTAAAA  
CTGGATCAGAAATCTTACAAAAACAAAAAACCTCTTCAGTATTTCCCTCAAAC  
AGGATCCCTCCTCACATCTGTATTTATATTTAAAAAATAAAAAACAGAAAAGAAAAAGAACC  
AGCATGACATCATTAGGTGTGTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1423

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCATAGGACTAGTCACTTGTGCTTTTCATGG  
ATACTGCCTGGGTGGGGGTTCAACAACCTATAAGTTAGAGAGTTTGAGAGCCAGTGGA  
AGTAAGTGGAAGTTGTTCTGAAATAAGCCCTGGCAATTTTCTGCAATGAAAAGGAGCAG  
AGGTCATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCGCGTACTCTGGTTC  
GGGTTCAAGTGAGAGGCTTTTCATGAAATCTTAGGATTGAAGAGCTCTAAGTTCAGGAT  
ATCTCAATGTTTCAGAAAGCCTGACTAAAAGAAGCCAAACCAAACCATTTAATGTGAACA  
CAAACCTCTTTTCTTTTAGTAAGTTTTACTTTTAATACCAGAAGTGAAAGAAAATT

## Sequence 1424

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTTTTTGGGTANT  
TTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNGGGNNAACCATNCTTTNTNAANNNTTNTTTNANNCATNCGGGGANAGGNTTAN  
ANNNAACCATNTTAAANGCATTTTANNTTTTTTNAACCAAATTTTTNAAAAAANAATT  
CTGAAANANNTTGGGNTTCAATNAATTTTTTAAANCAAAAAAACTTTCTNCNA  
TNTTANNTTTTAAAAAANATTTAAAAAANGNTNTTATAAAGNNGGNTTGAAAA  
NNCNTNTTTAGAAAATNANATTTCCATTTTTTACNNGNTTNNNGTTTTTNGGTTAAAAA  
CNNTANCTNGTTCCTNAAAAACANACCCCTGNCNTTTTNGGTNATNTAAAAAATTN  
AACTTTTTCTNAAATTTTTTNGGNAAAAA

## Sequence 1425

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCATCTTAACAATATTAAGTCTTCTGATCCA  
TGGCCACCAAATGTCTTTCCACTTATTTGGGTCTTCTTTAATTTCTTCAACAATGTTTT  
GTAGTTTCCAGAGTAAAAGTTTTATGCTTTGTGGCTAAAGTTATTCCTATCAAATGTTT  
TCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTGAGAGAGG  
GTCTTGCTCTGTGCGCAAGCTAGAGGGCAGAAGTGCAATCTTGGCTCACTGCAACCTACA  
CCTCCTGGGCTCAAGCGGTCTCCTGCCTCAGCCTCCCTAGCAGTTGGGACTACAGGCAC  
ATGTCACCAAAAAAATAATTTTTGTATTTTTGTAGAGACAGGGTTTACCATGTCTG  
GCTAGGAAGGTCTTGATCTCTTGACCTCGTGATCTGCCAGCTCGGCCTTCCAAAAGTG  
TTAGGATTACAGGGCNGTGAGCNGTTTTCNNTTGNNTTGGTTTNGAAAATGGANTTTT  
CCCTTTGCTGCCCAAGCCCCGGGAANNTGCAAGGGGTGTGNATCTTAACCTCACTGGNAAA

Table 1

CCTTCACCCCTTTTGGG

Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTA  
CTCTCAGTTTACTGCTAAATCCACCTCGACCCCTTAAGTTTCATAAGGGCTATCGTAGTTT  
TCTGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTGACCCCCGC  
GTCCTGCCCCGGGCGGCCGCTCGAAAGGG

Sequence 1427

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTGCTTAGAGCAGTGCTTTCAGATATGA  
ATCATTTCTAGAATGGATTATAGAAGGATGGGAGCTTTTAGTATTTAGTAGTTTCCTTTC  
TTCTCCCTAAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACAAA  
CTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTCTCTGGCTTCGGC  
CAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATCCCCTCAGGATCAGGAATGATGG  
CAGAGTGGCCCTGTTGGCTTTGTAGCTAAATTGTGCTCAGCCAGAGAAGAACCACGACCA  
ACAGAGCCCTAAACTGAAGTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGT  
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1428

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTATTTTCAGCCTAAAGAAATGGACAC  
TTCTCAGCATAGGCGGACGTGATTGGTTGTGGTCAATCCTTTTCCTAACCGAGGATCCAT  
AATATGACAGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGCCA  
TGAGAGATGGTGGTTTTTTAAGTTGATTTGATGTTGGATGTAAGTAAGTCCTGTGGGAGA  
GAATTTTTTTAAATAAAAAATACTGTTTAAAAGTGTCTTCTAACTTGATCTCTACCTT  
TTCCCTCTNCACTTCTAACTGCCCCCACCAGCTACACTTTCCAGTTTGAAATAATGA  
ACAATACCTTTTGCTGACAGACCAAAACCTTAATTTCTGTGGGCAAATGANGGGTTTTTTT  
CCCCCAACAATGAAACAAATTTTCTTGAAAAAANTCTTCTCAAAGATGGTTCTTATTG  
NAAATAACCTTCC

Table 2

## &gt;Sequence 1

ACTTAATATTTATATCTTATTTTTATTATAATTTATTTATTTAACTATTA  
TTTTACTATATTTACCTTATATAATATTTTCATTTCTTCATATTTATAT  
TAAACCCNCCNNAATGGCTTTGCTCTGAGCTCNCCTCCGGANGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGG  
AATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATG  
AAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCTCTGTA  
TTTCTTTCTAGTTTTTCCCTACCATTTCTTAATCGGAGTATCCAAGCCC  
AATCACCCGTGATCCTATGTCCTAAAGCATCTTGAATTGGTTGTTTCATGT  
TTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCTGATCC  
CACTTAGCCTCTGAGGTTCTGTAAAGTTCTCACCTTCTTTATGAATTTTC  
CCCAGCCATAATGATCTTTTTAACCTCTTTGAGCTTTTACTATTTATACT  
CTTTACCTAACCAACTAAATGGTTTTTGTGAAATGTGAGAAGATATAAAT  
ATGAATGGATAAAATACTGTATGTACAAAAATTTTAATATTTACAATA  
ATAGCAATTTTTGTGATGGACCTTTTTAGGGAATTTTTATTTGGCTTT  
AAGGGATTAGGGTTTATGCCTAATTAATTAATTACCATGCC

## &gt;Sequence 2

TTTTCTTAGCTCATCGCGGGCGGCCGAAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAAATATAAAGAGCTTTAAATGCTACCAAAGTGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

## &gt;Sequence 3

TTGTCTGTTGCATCGAGCCGGGCGTNCGGAGAGGAGTCCTTTACTTAGAG  
TCAAGCTGAAGGAGCATCACACCCCAAAGACTGTTATGTTGTGAAATTT  
AGGCTGTGTTTTAATAATACTGATGATGATAGGATGAAATAGTAATTTAT  
TGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTC  
GGAATCTCATTTGATCCTCATAGTTTTTATTGGTTATTATTATCCTCATT  
TTACAGATACAGAACTGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTT  
GTATGCCTTTTCATCTGAGGAGGTTGAGGACAATCCCAAGTTAGAAAAATA  
AATGTCCTTTAGCATTAATTTTTCTTAATGTTTAGAATATTAATAAGTTAC  
TCAGATAATCTATTGGAATTTCTTCATGGCAGGGGGAAGAGGCTAGAGTT  
GGTTTTTGGTTTTTGTTTTTGGCACAGGGTCTCACTCTGTACCCAGGCT  
AGAGTTTTGTGGTGTGATCTTGGCTTACCGAAGCTTCAACCTTCTGGGGT  
TCTACCTCAGCCTTCCAAGTAGCTGGGACTACAGGGGTGCATCAACACGC  
CCCCGTGTACCTCGTCCGTTTAGAAATG

## &gt;Sequence 4

TGAGCCGTATGCATAGAGNCTGGCGTCCGAGGTAAGTTCCTTATCT  
ATAACATGGGGATAATATTCGTAGCTACATCGTTGTTATGAGGATCAATA  
TCTGTAAAGCTCTTAGAACATGCATTTTCTTGTACTAAATTGTAAGGTC  
TGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCACTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGTCAGGCACAGTGGCT  
CATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGTGTAGGAGTTTCGAGACCAGCCTGTCCAGCATGGAGAAACCCCATCTCT  
ACTTAAATACTAACTAGTTGGGCATGGTGGCGCTGCCTGTGATCCCA  
GCTACTTGTGAGGCTGAGGCGGGAGAATTTGAACCCGGGGGAAAGG  
TTATGGTGAGCTGTGACCGCCCCATTGCC

## &gt;Sequence 5

GGCGGCCGCCCGGGCAGGTACCATGGAAACCCACTCTTTCATTGAAAGGA

Table 2

AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCACCTACCGGACTCTCCT

>Sequence 6

CATCTGTGCCNNATTTGAAATGCGAGCTTCACCGCGGTGGCGGCCGCC  
GGGCAGGTACCTATGACCATCTTACATTATTTTATGGGTGGGGGGCATT  
GGCTGTGGAATGTGGGCAGTAACTTGCACAGTCAGTAACCGTGTGAGTAA  
CGGTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTAC  
ACGCTGGTTTGTGGGCGGAGGGGAGGTTGGTGCCTGGGGTGTCCGGGCA  
CTGGCTGTGCATGCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCAA  
AAAGTCACCAAGTGACCAATTCTCCAGTGTTCTTTGGGACTCAATGCCT  
TGGGCTTGGCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCT  
CTATAGTAGTCCGGTGTGGACCTCTGCCCTCCTGCTCTGCGGAAGCTTC  
CTCAGCCTTTGCTTCTCACTATTTACTATTTGCGGGGCCTGGGGGTACCC  
T

>Sequence 7

GGGCGATTTGCAGGCCTCTCCGCGGTGGCGGCCAGGTACGGATCAATTCC  
GCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGG  
ACAGTAGCCAGTCTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACG  
GTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTT  
TGGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGT  
AAAGCAGGATCATAGTTTCTTGAACTCTCTGTAAGTCCAACCTTGGTTTC  
GCGGACATAATTGTCCGATTCCGGCTCAGCATCTTCACCTTCATCTCG  
TTGCTCTTC

>Sequence 8

GAAATGTTAGTCCACTCACGTGGCCGAGGCGACCGGATGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACC  
AAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGG  
AACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTC  
TGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATT  
GTATCCGTACCT

>Sequence 9

TTTCTGTTGTCTGTCCGCGGGGCGGCCGAGGTACCACATGCACTGATAGC  
TCTCTTTGTATGAACAGAGCTGTGGCAGGCCCTATGCCAGGGAGAAAAGTA  
AGATTGAAAAAGAGCTTACCAAGGAGGTGGCATTGCACTGTGCTTAAGG  
GGCAAGAAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGAAGTG  
CTACTGCTCTTTATCCTGGAGCTGGAACAGACGTCAACAGTCAATCATG  
ATGGCTGTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAG  
GCTGAGGGTGGGAAGATTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGG  
CAAAATGCAAGACCCTGTCTCTGCAAAAAAATATAAAATGTAGCTGAGTG  
TGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGAGAGGCTGAGATGGGA  
GGATCGCTTGGGCCTAGGAGTTCGAGGCTGCAGTGAGCTATGATTGCACC  
ACTGCACTCCAACCTGGGTGACAGAGCAAGACCTGTCTCTAAAACCATTA  
AATTAAATCAAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGTCTGTT

>Sequence 10

GGTGCCTTACCGGTGGCGGCCGAACATOCATGTTTTAACTAGCACAGA  
CAAAACCTATGTGTTACTATCAAAATAAAATTTAGAAAAACAATTTCTT  
ATAAAATTTCTGTTTGTATTTGGACTACATAAACTGGCTTTAAAAATTGA  
GAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTGCCATGAGCTAAAAATCA  
CATCTTCACAAAGTAAATTACGCCCTGTTTTTTATTCTTAAGCACTAGG  
GTTAGGATTGTGATCTGAGCTTTACTAAATCGGAAAAGAAAAATCTCAATT  
ATAGAACATTTAGTTTATTTATACCTTAATGCCCGGAGAGGTAATATTTT  
ACTTTAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAAC

Table 2

## &gt;Sequence 11

CGAAAGACCCTATCAGGGGCGGCCGCCGACAGCTACGCGGGATTGCTGGC  
CTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCCGCTGCCGTGAT  
GTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTCAAGCTG  
CAAGCAGTGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGTAAG  
GTGTGAAGACAGCTTGCCTTTGATGTGGGACTGGAGTAGGCAAAGAGTTG  
GTTCCATGCCCTTCCCCTTTGGTGGACCTTGGAAGAACCCTGGACTTT  
TGTTTTCTGCCAAAAGGGCAACCTGGCAATGATGTTCTGATGGTTTCGTC  
GTTAGGGCCATAAATGNTTGTAGGGAGGGTGGGGAGTAAGTAGGAACCCC  
GCAATCCGGGAATCGCATCAACCCATAGGGCCCCCTTGATTTGTCTAAAC  
GACCTGAACCCCTTGGTTGCCTTCAATTTGACTAACAAATTGTAACCTTA  
TTCTCCAGTTTTCCCAGGAGAACCGGGGGCGTTGTACCAACCCCCCTT

## &gt;Sequence 12

AGGTACTTTTTTTGTTTTGTATTTTAGTAGAGATGGGGTTTCAACCGTGT  
TGGCCGGGCTGGTCTTGAACCTTGATTTCAAGTGATCCGTCCACCTCAG  
CCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
TCTTTTTTTTTTTTAAACGAAAAAATGTTTTTAATTGACAAATAAAAATG  
ATGTATATTTATGGTGTTTTTTCTCTTTTGTCATCATCAGTCTCTTTCTCA  
TCACTGAAACCTACAAATATTTTAAAAATCTTTCCATTAAAAAAATTTGC  
TGATCATTCACCTCTTCAAAATTAAGAGATACTTACTTTGTATGAAA  
AATTTTGTGCGAGATGTATAATCCATTTTTTCTGGGAAGAGAGTCAGTT

## &gt;Sequence 13

TGGGGTTGCTTNCCATCACTTAGGGCGAATTGCGTCCGAGGTACCAGGTG  
TCATTCTGCAGCAGGATTTAACAGATGCAGATCTGGCCCCAGTGTGAGC  
ATCTGTGTTAATGGTATCAGACTTAAAGAAGGAAAGACCTGATTTGACTG  
CTGTTGGTTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGTGGGAGGGA  
GTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGA  
CAAAACAGTAGAATCGTACCTGCCCG

## &gt;Sequence 14

CTTANNTTGCTGAGACTTCTATCGCGGTGGCGGCCGAGGTACGGTATTCT  
CTTAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG  
GACAAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTAGATG  
ACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGG  
AGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC  
CCTGCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGG  
ACTTGGAAAAATGGCAAACAGATAAAGTCCATAGATGCAGGACCTGTGGAT  
GCCTGGACTTTGGCCTTTTCTCCTGATCCAGTATCTGGCCACAGGAAC  
TCATGTGCGGAAAGTGAACATTTTGGGGTGGAAAGTGGGAAAAAGGAAT  
ATTCTTTGGGCACGGGAGGAAAATTCATTCTTAGTATTGCATATAGTCCT  
GATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT  
TGATATTGAACTGGAAAACCTTCTGCATACCCTGGAGGCCATGCCATGCC  
ATTCGCTTCTTGACCTTTTCCGGGGCTTCCAGTTCCTTGCATTGTTTGA  
TGATGGCTACCATAAGATCTATATGGCC

## &gt;Sequence 15

GAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCCCCGGCTGGTTATG  
TAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATG  
ACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTT  
CCAGTGCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAA  
AAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGT  
CTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTTG  
AGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAACGAG  
AGACAGCCAAGCGGCCTGTGGGTGGCTTCCTTCTGGATGGTTTTTCAAGGA  
AATCCAACAACCCTGGAGGCTAGACTACGCTTGCTGTCATCAGTCACTGC  
AGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGGCGGCCAG  
GGGAGGTGCTCGAGTGTATTGAAAGAAGAGTGGGACTTATTTGAGAAGTT  
TTTCCCTTATCAAGTAACAGAGCGGGGGTGTGCCCTGACTTTAAGTTTGT

Table 2

TACCAGCCCAATTCCGAGAGACCCTCTCCATCAAAGG

>Sequence 16

TGGTCGTTGATTCTCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAG  
AGGTAATTTTAATGCCATTTTCATGGGACACTTGGGAGCTAGATTAGAAG  
AAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGGAAGTGGTGAAGG  
TCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGGGG  
TGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAT  
CTGGGTGGTGAGTCAGTCGGTATTGGTGACTTGTAAATCATTTTCGGTTGG  
AAAACAGTTTGACTGTGCGCTCTTTCATATTTTAACTTTGGAGCCTCTCG  
CCTTTCTAATTTTGTGTATTCTCATTTTTACTGGTTCACTTTTGGGGTTA  
TCAGAACCCCTCCGTTTTTAAATTTTCCCCGGTTTCCAAATTTCCCTTCC  
CTTAAATATTGTTTCAATTTTGGCCCTTTTGTAAATTTTCTAAAAATTTTCC  
ATTTTTCAATATTTTGGATGCTGTGAAATTTTAAATAAAATATCTGTTGG  
CAAAATTATATTGTTTACCATATCAGTCATTGGGGTTCCTTGCCCTCATT  
ACATTCTATACCCCTTTGGCC

>Sequence 17

GGGAGTCTGTGCTCATTCGGGTGGCCGGCCGCCCGGGCAGGTGACTTTAG  
TCCTCACTCTGTGGGCAGGGGCATTACAGCATAGGGGTCCCTTTTGTGAG  
GGATTTATGATGGCATCACACGCAGGATTCAGAGAGCATGAATTGAAAAA  
TACATATGATTTGGGTGGGGGTGGAGGCTTATGCCTGTAATCCCAAGCACTT  
TGGGAGGCTGAGGTGGGTGGATCACCTGAGGTTCGGGAGTTTCGAGACCAGT  
CTGACCAACATGGAGAAACCCCTTTCTCTACTAAAAATACAAAATTAGCCG  
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAG  
GAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCGAGATTGTG  
CCACTGCACTCCAGCCTGGACAATAAGAGCGAAACTCCATCTCAAAANAA  
AAAAAAAAAAAAATGGTACCTT

>Sequence 18

TGGCGATCGAGACCTNACCGCGGTGGCGGCCGAGGTACGATTCTACTGTT  
TTGTCTTCTAGGATCAACTCGGTCAATACCACAGCTCAAACCTGCTTTGG  
GACTCCCTCCCAAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCAA  
CAGCAGTCAAATCAGGTCTTTCTTCTTTAAGTCTGATACCATTAAACACA  
GATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAA  
TGACACCTGGTACCTGCCCG

>Sequence 19

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT  
TTTTTTCCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAAT  
TTCTACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCCT  
TGGTGTTTTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCT  
TAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCAGTGTTT  
TTTTCCCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAG  
GTGGGCGGGGAGGGGGCTTCCTATTTGATTTAGTGGCTGATCAATGCCAG  
TTACCAATTATTGGTAGCCCCATTTATACATGGTGGAAAAAAGTACCT

>Sequence 20

TGGGGTGTGGCTGGTAGCGCGCTTCGGCCGAGGCACCACAATTTTTTTA  
AGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTTCAGGGTGTCCATTAAA  
AGAGCATCTGCGAATTGTTTTTGCAGGGACTCCTAATCAGTCAGGAGAAG  
TAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTACACAGG  
ACACAGCTCCTCTCTTATGAAGGGATGAGAAGCAGACCCCAAAACCCAGTG  
CCACAGTCTCCCTGGAACAGCAGCAGGCTTGGGGAATGCTTCCAAAAGG  
CTATGCCATTCAAGGTCTCAGGTTTTTGGTTAAAAATACAACTTAGGCC  
AACTGCAGTGGCTCATGCCTGTAATTAATTCCAACCTCTGGGAGGCCCGAG  
CGGGTGGATCTCCTGGGGTCAGGGGTTTGAGACCAGCCTGGCCAACATGG  
TGGAACCCCATCTCTACTAAAAATCCCTGTGGGTACATTTAATGAGGAAA  
AAAAGGTCCTTGCCCGGCCGCGGTTTAAACTAAGG

>Sequence 21

TGGGGAACGTTGTTGACTCCGGGTGGCGGCCGAGGTACGATTCTACTGT

Table 2

TTTGTCTTCTAGGATCAACTCGGTCATTACCACAGCTCAAACCTGCTTTG  
GGACTCCCTCCCACAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCA  
ACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACAC  
AGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGA  
ATGACGCCTGGTACCTGCCCG

>Sequence 22

TTATGTACGTCGACTCACCGCGGTGGCGGCCGAGGTACAGAGTAGAGAGA  
GTTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGG  
CCTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTA  
ACTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTT  
GAACGCCCCTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGA  
AGAAAAGGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATAT  
GTAATGGTGGCTTGGCCAGGGTGGTGGATGNNCATAATTTTTTTATTGTG  
TGAAATTTATTTCTTATTAATTTTTTGAACAACCTTACTAACTCTGAGTA  
TAAATTTAAAGACTGGGTTTCCAAAATATGATTCCTTATTTCAATTGAAT  
GTTATAGCTCTAATTGTTCTTTTTTTTTCTGATACATTATTTTCTAC  
TATATTACTAAATCTTAAATCTCGGTTAGAGTCTGATATATAATGGGTC  
CATTTTAAGTGTCTCTCTTTTTTACAAATTGCGTAGTAGTTTGTTTTTT  
TACTTTTAATTAATAAGTCTTTTAATTTTTTATTTTTT

>Sequence 23

GGGTGATGAGACTTCATCGCGGTGGCGGCCGAGGTACACAGTAGAGAGAG  
TTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGGC  
CTTGTAGGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTAA  
CTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTTG  
AACGCCCCTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAA  
GAAAAGGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATG  
TAAATGGTGGCTTGGCCCAGGTGGGTGGNTNNNTNATATAAATTTTCTTT  
TTACATTGTAACCTCGTCTACTATTTCTCAACCAAATTATATATTGGTCC  
TCATTTAAATAAGAACTAGTTCCCAAAAATGAATATATCTAAGGTCTTA  
CTTACCGGTATGAGAACCATTTTAACTGTTTGGCCCCGCTTATATTTATT  
GAATTCATCCTATTTTGCCTGAATAGAACAAATTCGCTTCTGGGGGCCTT  
ATTCGTTATTTTTCTATTTAATTGTATTCCGTCATTCAATAGTGTGGGCC  
GAGGGTCAGCTTTTGTGTTTACTGTTTAAAGTTTTTTATCCTCCTAATATT  
TATTGACAAAAAAT

>Sequence 24

TGGAGTATCCTCACCGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTG  
GCTCTGGGTTAGAGACATGCTGACTGATGAGATCACCAAGGCAGCTGCAA  
AGGAGAGTCCGGTAGTGAAAGGCAATGCGCTGTTAGCTCTAAGCAGCCTT  
GCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGG  
GCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCA  
TGGTACCTGCCCG

>Sequence 25

TGGGGNATGTATCAGCTCCACCGGGTGGCGGCCGCGGGGAGGTACGCG  
GGAGGCACATTCTTTTCTACGTGAAGAGTTTGTAACTGAACTTTGTTT  
TCAGTTCCGGCTCCAGCCATCCTGGGGTAGCTTGCCAATAGATGAATCCC  
ACTCGTTTGACCCATGACGTCCTTCTTTTCAATTTCTCCCTCTTTCCCA  
CAGCAGTGCATGTCCACCATAACACCTGAGAGTCTGTGGAATCTAATTTT  
CTGTTATACTTCTTTCCTTACACTCATTTTCTGTCTTTATTATGATAGT  
CTAACTTTTCTCCTCAAAGGGATAGCTGCCTTGCTTTCATGAAAACACA  
CTTTTCTAATGGGGAATTTAAAGAAAGGCCTTTCCATTTTAAAGCCCCATG  
CCTTGACAGAATTTATTAATAAATAGGGCCTTTCAAAGGGGAAACCGTTC  
CAACATGCCTACAGAATGTTTTATAACCATGAAATATTTACTGGCGTTAA  
GTCCAAAATGCTGACTATCCTGGTCCGTATCCTTTCGACCACTGTTAATG  
TATAATTTTGCAGGTGAATGGTC

>Sequence 26

TGGGATGTGCCTCATCGGGGCGGCCGAGGTACGGATACAATTCCGCTGA

Table 2

GT TAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGT  
AGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACGGTGAC  
CATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTA  
GCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGC  
AGGATCATAGTTTCTTGGAAGCTCTCTGTAAGTCCAAGTTGGTTTCGCGGA  
CATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCT  
CTTC

>Sequence 27

CTCCCTCATATTACTATTCTATCTCGTAATTATTGTTAATTAATTTACAA  
TATTTTATCAATTAGTAATCTTTTCTTAATTTAACAANNANCNCANNNTT  
GTCTGTTGTGCGATCCGCTTCCACGCGGCGGGCGGCGGAGGTACGGATACAA  
TTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGA  
AAGGACAGTAGCCAGCTTGTCTGGATGCTTTGCCAAGCAATTGACTCCAT  
CAGGCTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCC  
AGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGG  
ATGTAAAGCAGGATCATAGTTTCTTGGAAGCTCTCTGTAAGTCCAAGTTGG  
TTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTTATC  
TCGGTTGCTCTTC

>Sequence 28

TGGACTGTGCGCCTTTCCGCGGGGCGGCGGAGGTACTCAGTTTCTTATC  
TATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAAT  
ATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGGT  
CTGGCAGGCGCGGTGGCTCACACCTGGAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGGTCACGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTGT  
ACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGATCCCA  
GCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCCGGGAGGTCTAG  
CGGCCGACCGGGCAGGACGCGGTGAT

>Sequence 29

TGGATTATGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTT  
ATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATC  
AATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAA  
GGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA  
CTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAA  
ATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTT  
AAGAAACCAGACTTAAACATTGAAAAGTTAAACATTGGCCAGGCACAGGG  
GCTCATGCCTATAATCCCAACACTTTGGGAGGCCAAGGCAGGAGGATCAC  
CTTGAGGTAAAGGGTTTCAGACCCGCTGACCACATTGAGAAAACCCCTTT  
TTTCTTAAAAATCCAAACCTGTTGGCT

>Sequence 30

TGGGGATGTTGCAGCTCTGTCCGCGNGGCGGCCGAGGTACTCAGTTTCC  
TTATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGA  
TCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTT  
AAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCAGCACTGTGGAA  
GGCTGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTA  
ACTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGA  
AATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGT  
TAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAG  
TGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATC  
ACCTGAGGTGAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCA  
TCTCTACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGA

Table 2

TCCCAGCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCTCGGAGG  
TCGAGCGGNCGCCCGGCAGGACGCGTGGGATGN

>Sequence 31

GACTGATGTCGACTCCCCGCGGTGGCGGCCGAGGTAAGTTTCCTTAT  
CTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAA  
TATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGG  
TCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGC  
TGAGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGT  
GCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAAT  
CCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGCTAGTTAA  
GAAACCAGACTTAAACATATGAAAAAGTTAACATTGGGCCAGCACAGTGG  
CTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAAGATCACC  
CTGAGTAAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATTC  
TACTAAAAATACAAAACCTAGTTGGCAATGTGG

>Sequence 32

TGGGATGTGCCCCCTCCGGGGGCGGCCGAGGTACGTATGCACTTGCTTGCC  
ATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTACTTTGATTCTC  
TGACCAAACTGGCCTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGG  
CCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGTT  
AAAGCTGGGTGGGAGAAAGTGA AAAAAGGTCAGGTTTACATTCCTACGEGGA  
AAAGGATGTAAACCGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAG  
GCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGA  
GAGTAAGCCTAAGCAAACTCAAGTGGGAAGGGGAGTGGGCTGTAAATAG  
TTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGTAGAAAGGTAA  
CAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTC  
CTCTTGCCAGCGTTTCTTTCAAACTTTTGACATGTTATATTTTAGAGG  
CAAGTTCAGTTCTAGAGGAGCTGGCCTGC

>Sequence 33

TGCCTGATGTTTGATCGAGTTCCCCGCGGTGGCGGCCGAGGTACGTATGC  
ACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTA  
CTTTGATTCTCTGACCAAACTGGCCTGTGAGCACCTGGGCCTTTCTTCC  
TCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGA  
CAGAGCTGGGTTAAAGCTGGGTGGGAGAAAGTGA AAAAAGGTCAGGTTTACA  
TTCCTACGCGGAAAAGGATGTAAACCGGGGCCACATCCTATGCCCAATCC  
CAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAA  
TAAATGACTTGAGAGTAAGCCTAAGCAAACTCAAGTGGGAAGGGGAGTGG  
GCTGTAAATAGTTTAAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGG  
GTAAAAAAGGAACAGTCAACAGTTTTCTACAAGACAGTTTAAAGCAGCA  
GTTTTGGGGAGCATTCCTGAGCCTGGG

>Sequence 34

TGTTACGATGCTCATCGGGGGCGGNCGAGGTACCAGTTAAAGTCTTCTAG  
CCTGTATCCCCACTCCTTTTGGCACTTGCAAATTCGGTAGCCAGTTAC  
CCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGGGCTAATATGA  
GTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCACCCCCAT  
CATTAATCATTAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGT  
GCATATTTGGAAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAA  
CTTACAGTATCTGTTTCCACAACTACTGCAGTCATATCAGTTACAACCG  
CTGGGTGTGTATTGGTTCAAAAAGGACCTACCTACAAGGTTATATCAATCC  
ATTGTCCAATTTGAGAGATTTTTTCTGAATCCAGTTAAAAATAATTTTGG  
CTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAGCCAAAAAGGCCCGGCAACCTTGGTTGCCACCAGATCCCCAAC  
AGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTAACACTCACAGG

>Sequence 35

GGTATGTTGGNCANTTTAGAAGCCCTCTCCGCGGTGGCGGCCGAGGTACG  
GATACAATTCGGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACG

Table 2

CCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTG  
ACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATAC  
TCGTTCCAGTTTGGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCT  
CAAAAGGATGTAAAGCAGGATCATAGTTTCTTGGAAGCTCTGTAAAGTCC  
AACTTGGTTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCAC  
CTTCATCTCGGTTGCTCTTC

>Sequence 36

CTAATTACTCTATCGATTTCTTATAACTCTCATATGATATATTTGTTTCAT  
CTTATTCATGCTTCAATTAGACGGTTTACTATACTTTTTATTCTACCAAC  
GTACTTCTCATTATCTACTATAANNTTATAATGANTTTTTTGGCGTCTTC  
GAATCCCCGTCGAGGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTG  
TGTGGCTGATTACGGCTGTCCCCACTGCAATGTATGGAGAGGAGAGAAAAG  
GGATGAAAGTGAAGGCAGGGGGGGGATGTTTGTTCACGGGGTGAACCTT  
CTGCCTGAGCAAGTTGATGTTGGCTTCCGAGGTATTTGGACACTTTCTTT  
CAATACATTTTTATTTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACC  
AGAGTGAATAAACAGATTAAGAGGTCCCTGCCCTTTTGGAGCCTACAGTC  
TTTTTGTAGAGAAAATTGAATTGATAAACCATACTTTTTTTTTTTTGA  
ATTTTGGTGGGTTTTTTTTAAGGTTAGAACAAATGCTTAGGGTGGGAAAG  
GCCCCACAGAAAGGGGTGAGGGGGAGTTACCTTTCCCGGTGCGGCCCT  
TTTCAGGGATTAACCCAGGAAATAAAACCTTGTAGGCAAAAATGGCCCAT  
CAAAAAGGCCAAGGAACCGTTAAAAAGGCCCGTTTTTTGTCCATTTTT  
TTCATTAGGGTTTCGCCCCCTTTCCAGGGCTTCACAAAAATTCGCCC  
CTCTAAATTAAGGTTGGGGATACCCCCCAGGGCTTTAATATCCCCAG  
GGTTTTCCCTT

>Sequence 37

GGAGCGTTGAACCCNTTTTAGTAGCGCTCTCCCGGGTGGCGGCCGCCCGG  
GCAGGTACGCGGGGCAACATGGCGGCCTTAGCAAGCTATAGCTGCGAGA  
TTTGAATTACTCCACTCGTAGCTATTGCATTCTTGACGATGGCCTCTGTG  
GCTTCGTGCGATTTCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTC  
TTCACAAGAAGAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACT  
CGGGTTCATATTCCTCAGCGAGTAGCGATTATGATGATCTTGAGCCTGAA  
TGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTTTATTTGGAATTGAG  
TGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACTGTGAACCATG  
TCAGGTTCAAGTGAAGATGAGATTATCATTTGAAGATGACTACCNNNNANAA  
NATTTTTAAAAAAGTACCT

>Sequence 38

TGAGCGTACGAGCCCTCTCTGGGGGCCCGGAGGTACTTAAGTTTTTCTT  
CAGTTACAGCTACCATGTGAAAATAATTCTCTGCTTATCAAGTTTACAAC  
TTTGAATTTCTGTTTTTAAAGTTTCTCATTTACTTATCACACAGTCAT  
CTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGA  
AATCAACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAG  
AAGACACTGGAGACACAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAG  
AAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGTGGTTCACACCTGTA  
ATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAGGAG  
TTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTTTTTAAAA  
AATAAAAAATATTNTGTTCTGCCCC

>Sequence 39

TGACGTTGATTACAGAGCCCTCACCGCGGTGGCGGCCGCCCGGGCTGGTAC  
GCGGGAAAGCAAAACGACAAGCACGCCCTGAGCAGAGCCCCGGGAATTCA  
ACCTTTAAGTGGATTAAGTTGGCTTCTGGTTTGCCAAGGAACAGGGCATC  
AAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGTG  
GGGATGATCTTTCAAATTATCCACAACCTTAATTAATTTATTTGATAG  
TCAATTACCTAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCA  
GTAGTTGGGCGCAGTGGCAGCACTTTGGGAGGCTGAGTGGACAGATCACC  
TGGGGTCAGGAGTTTCGAGACCAGCCTGGCCTACATGGTGAAACCCCATCT  
CTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCCA

Table 2

GCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA  
GTACCT

>Sequence 40

TGGGCGTTGACTGGATGCGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTA  
GAAAACGTGGGGCTGAGTCCTCGGGGCCGTGGGGCGCAGCGTGGCTGAT  
CACCATCATAACGGGCCTATGGGGATACATTCTCTTAGACATTTTGAAGT  
AATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGCATAA  
TCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATA  
GAAGCGAGAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGA  
TGTAAGTGGCATTATATTCATTGAGGTATTTTCCAAAAAAGGCTGTTCTG  
TAGCCAGTGTGTGTAAGATATACAGCAAAAGTCCGAGGCTCATGCATGGC  
CTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTGTAGACATTGTGAT  
TGTGCACATACTTCCCGGTGAGCATGGAGGACCGTGACGGGCAGCACATG  
GGTTGTAGTCACAAAGGCATTGATGAAAGTGGCCCCCCCATGTTCCATAA  
TCTTTCTCGTTTTGTTTCATGACTTGCAAGGACCCAGCTCCACATCTTGA  
TCATCGGTAAGCACAAGAATAATGTTGGGTGCGATGTTTTT

>Sequence 41

TGGAGTGTCTAAGCNAANTTCAGAAGCGCTCTACCGCGGTGGCGGCCGCC  
CGGGCAGGTACACGTGCAGATTGTGCAGGTTAGTTACATATGTATACATG  
AGCCATGCTGGTGGCTGCACCATGGCACAATGCATATCTATGTAACAAAC  
TTGCATGTTCTGCACATGTATCACAGAACTTAAAGTGAATAAAAAAAGA  
AAGAAAAACAGCATGCAATTCAGCCACACAAAAAAGAAGTCAAAGAC  
AGCGAGAATTCTTAAACAGCAATAAAAGTATAAAGTCACTCTAAAGGA  
ATCCCCGTAGATTAACAACACATTTCTTAAGAGAAATCTAACAGGCCAG  
GAGAGAATGGGATGACATATTCAAAGTGTAAAGGGGGGAAAAAATCC  
ACTCAAGACTACACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAAAC  
ATCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGC  
CTTACCAAAAAATGCCAAAGGGAGTCTTACATCTAAAGCAAAACGACAAT  
CATCACGAAAACATGCAAAAGCATAAACTAATCTGTACCT

>Sequence 42

TGGTCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG  
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA  
CTATGATCCTGCTTTACATCCTTTTGAGGTCCACGAGAATATATAAGAG  
CTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCTTTCTGGGGCGGTGTGATGGAGAGGTTAGAATT  
GGAATCTAACTCAGCGGAATTGTATCCGTACCT

>Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

>Sequence 44

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
CTGAGGTGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCT  
ATGATCACAACACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACT  
GTAAAAAATTTTTTACATTAATTTTTTAAAGTGAGGTTTTTACCTGAT  
GATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCGGCTCCTACGACTCTA  
AATATAACCTTCAAGGAAAGTGGAGCTGGTTTACTCTTTTCTGATAATAT  
CAAGCCATTCTGGCTGGGCGTGGTGGCTCATGCCTATAATCCCAGCACT  
TTGGGAGGCCCGCGTACCT

>Sequence 45

Table 2

CCGGGCAGGTACGCGGGAATTCAAGATGGATTAAAGATTTAAACGTTAGA  
CCTAAAAGCATAAAAACCTAGAAAGAAAATCTAGGCAATACCATTGAGGA  
CATAGGCATGGACAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAC  
CAAAAGCCAAAATAGACAAATGGGATCTAACTAACTAAAGAAGGTTTTG  
CCCAGCAAAAGAAACCTACCTTCAGAGTGGACCGGGCAACCTTCCCGATT  
GGGGGAAAATTTTTGGAAATTTGGCCCTTTGAACAAAGGGGTTATTTT  
CCCCGAATTTTATAAAGGACTTTTAACCAAATTTTCCAGAGG

>Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGGGAGATCGTGCCACTGCC  
CTCCAGCCTGAGAGAAAGAAACTCTGTCTCTAAAAAAGAAAGAAA  
GATGTCAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTTGTCA  
AAATCTCAATGGTATATTTTGCAGATTTTCAAATTATATATATATGAT  
TTATAAATTATTGTTATAGATTCCTGGAAAGTTAATCCATCTCACCATTA  
CATAATACCAATCTCTCTCGGCCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAG  
ACCATCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATA

>Sequence 47

CACACACTCTTCTATTCTGCTCGCTCTATTTCTCGTGTCTTGCACTACGT  
ATCTTCTTCTCTATGTTCTTCT

>Sequence 48

GACGTAGTCTCTCCGCGGTGGCGGCCGCCGCGCCAGGTACAAGGACATG  
CTGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCCTCAAGACTTC  
AAGGCCACTCTCCCATAAACATCAGACTACAGATTTAGGTGGAAGAGCA  
GCCATGTTTGAAAGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATT  
TCTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTAT  
TCGTTGGGCTCCCAGCAGTGCTTACCTTCTACAGCGTTCACTCATTTTGT  
TCTTTCCCCCAACTTTTTTTTTTTGAAACGGGGTCTTGGTTTGTCCC  
CAGGCTTGGAGTGCCTGGACTTGGTCTCTGCTTGATGGAACCTCTGG  
CCTCCCAGGTTTAAAGCGATTCTTCTTGCCTTAACCTTCCAGAGTAGC  
GTGGGAATTCAGAATACGTGCGCAACCATTTCCCCGGGTAAATTTTTAT  
ATTTTAAAGAGACCGGAATTCAACCATGGTGGGTTTAGGCTTGGTCTTG  
GAACTCCTCACCTCAGGTGGAAGCCACATGACTCTGGCTCTCCAAAGT  
GCTTGCCATTACAGGCGTGGAGCCACTAGGGCCTGACTTCCCTTTTCCTT  
TCCTGCCCCAGGCCGAACCACATC

>Sequence 49

GCCCCTTGGGGGAAAAAAGGCCAAAAGTTGTTCTGGGGAAAAAATTTTTT  
CCCTTCCACAATTCCCCAAAAAATTTAAACCGGGGAAAAAAGAAAAAAC  
CGGGTGGGCCCCCAAGGGGGGCCCCACACCAAAATTTTGTGGGGCGCCCC  
TCCCCCTTTTAAAGGAAAAAATCTGGCCCCCTTTAATTAATACAC  
CCCCCCCCCGGGGGGGGGGTTTAAATTTCCCTTTTTCCTT  
TATATAAAGGGG

>Sequence 50

GGTAGTTGCATACCGTGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTAC  
CT

>Sequence 51

TGCGCTATGATGCTCTCCGTGGGCGGCCGAGGTACCTCAGCATATATTGG  
AAGTGTTTTAGAGTTGGTGAGTTCCCGTGCCCTCCAGAACTGAACGCTA  
GGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAACATGGGGAACCT  
CTGGAAATGACACACTCTCCGGCACAGGGGGCCATTCTGTCATCTTGAG  
GTGGACTAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTT

Table 2

CTAATCGGAGAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCTGGG  
GGCTGATGAGTGAGGTGGCAGCAGGCATCCGCGTGGATTTGTTGAACTG  
GACTTTTTATTGTGCTGAAAGCTGCTTGTGTGATGATCTCATACTTTGT  
AGTTGTCTATCTGCAGCACTGACTTCCTAAGGGATTCTTCCAACCTAGA  
AATCTTTTCTTCTATGGAAGGCTTACAATCTTTTTCTGTGTTTTCTTG  
AAATTCTTAAATTTGGGAGGTTTTCTGGAGTACCTGCCCCGGGCGGGCGC  
TCGAAAATAATCTCTCTGCTCCTATCTTAGGTTACTATCCGGGGAGCCC  
TGGATACCCCTTTTTTCTTTCCCACTGGGCCCCCT

>Sequence 52

TAGTTGATGCCNATCTTTNGANGCCNCCCCCGCGGTGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTGGCATTCTGAAAATTCATGAGGCTGTGTT  
TTAGGTGAGGCTATTTCTTCAATTCAGTGAACGGGGCACCAACAGGCTCT  
TAATATGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTTACTA  
GTTCTTCAGTAATTTCCCTCCCTTCATTCTCTGTTCTCTTTCTCCTCGG  
ACTCCAATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAA  
AAAGGTTCTTAGAGGGAGGGAGTTCCCTGGGAGTGTTATGTGGGGTGGTGC  
AGAAGGTGCTAACAGGTGGGTTTCTCTTAGGATGAGCAGGTGGGATGCC  
AACTGTCAGGCTGGGACCTTTCCCTCCAGTGCTAAAATGAAAGTTTTATT  
CTGGTCTTTGACATCCACACAGAGAAGTCTTGACTTTCCCTTCCGCGGAC  
ATTATATATTTATTTTTATTTATCTATTATTTAATTCTTCTATTATCC  
TTTTCTATTCTATTTCTCTGGGGGGAAGGGCCCCCTCGTTATAAAC  
TGGGATTAATTGGTTCATAAGGAAAACCTCTATTTTTCT

>Sequence 53

CACCTACTGAATTATGTCTTGACTATTATAAGTTATTACTCTATATTCAT  
TGATCTATATAATTTATATTTTTTACACCAACCAAGATGTTTCCTCT  
CGTTGGCGCGCAACGGGGGCTGCCGAAGAGCGACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAGGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCAACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAATGTATCCGTAC  
CT

>Sequence 54

ACTTATTACCTACATGTTACTTCTTATCTTTGTTCTAATATAGTATATG  
TTCGAAATATTATATCATATTTTTGATATTATTTATTAATAATTTATTA  
ATATTACTNNNNNTGGTGTGTTGACCATTTGGAGCCCTTCACGCGGAGGC  
GGCCGAGGTACACTGGGAAAATGAAGAACTTAACATAAAAATAGAGG  
GACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGAT  
TTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCT  
TTCTGTAAAACTGGCAATTTGGGAAGCATCACTGGATAAAATTTATTGAAT  
CTATTCAGTCAATTCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAACTA  
TCTCATGAAGAAGTTATGCAGAAAATCGGTGAACCTTTTGCTCTAAGGCA  
CCGTATAAACTTGAGTTCAGACTTCCTGATTACTCCTGATTTCTACTGGG  
ACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTAGC  
ATTGGCCGAAGAGTTAAGGTCAATGAATGAAAACTTAAGCACTGCATGGA  
ACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTTCGCT  
TGGAGGGGAAGATTGTCAATCCTATTACCATAGAAGGAATGGTTGAGCTG  
GGACCAGTTTTTTTTGATCAGTGATACCAAGTGTACTGCAGAGATATTAA  
GTG

>Sequence 55

TCCTCCCTCCCTTCCTTTGTTACATCATTTATTTATACTCTTCTTGCT  
TCTTCTCTATTCTCACTACGTTATCTCCTTCTATCGTTTCTTGATC  
AGTCGTTTATTTTTNGACTNCNNNNNTNNTTGTGTTGACCTAGCTCCA  
CCGAGGCGGCGGCCCGCCGGCAGGTACTTTGCAAAGTGGATGCAGCA

>Sequence 56

Table 2

TTTCGATTGAGACTCTCCGAGGCGCGGCCGGAAGAGCAACCGAGATGAAG  
GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTT  
GGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTACATCCTTTTG  
AGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGA  
GTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGT  
CAATTGCTTGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGG  
CGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATC  
CGTACCT

>Sequence 57

TTCTTCTCCTCGGTGCATATAATATTTTCCTTTTTTCTTACGGTCCGTGA  
GTCTATTTATTGTTTTTATTCTTTTTGATCACTAATATTATTAANNNNNN  
NNTNNAATTCCTTTGTGCTGCACGCCGAGGCACCGATCACTCAGTTTGTG  
CAAAGGAGAAACGGCCACAGGGAATGGGCGGCGGCTTCACCTGGGGATAC  
CTGATGCCGTGTTTGTGGAAGATGTAGATTCTTTGATGAAACAGACTGGC  
AATGAGACTGCAGATACTGTATTAAAGAAAGTGGATGAACAGTACCT

>Sequence 58

TAATTTTATCTATTCATATTATTGTTTTTACTCTGCTAATTTATATTTCT  
TTGTACATCATTATTTACTTTTTATCATATAATATTTATTTNNATTTCA  
ANNATTGTTTCTGTTTCATTTGGAAGCCTCCACCGGGAGGCGGCCGCCCG  
GGCAGGTACGCGGGCTATTGTGATTCCAGTGACCCATAGAACAGGATTT  
CACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGTCAGGTC  
CAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACA  
ACCAAATATTGCCACATTCCTGAGGTCTATTGACACAATGGGAACCTCAA  
CCCTACTTAGCTTAGCATTTTTTTTTTCAAAGAGTGAAAAGTGGTCCAC  
GTAGAGCACAATATAATTTAAGTAAAGGAAGATTAACATATTTTTATC  
CATTTCTTATGGTGGGAAATTAACATGTTTTAGATTTGAGGTCCCCCTCT  
CAGGAAACCCCTTCAACTTCGTATTATTCCTCCTGAGTAGTATGGGGTA  
GAAAATGAGTGGAATCAGTTTGGCCACTATTTCCGAGTCTTTTGCAGTG  
CAACTACTTTCATCAATATTTACAATATTTCACTCCTGTTTACAGATGGGG  
ATCACATCAGGCTCAACCAAGTTACAGAATTCCTTGGGTTTTATCTGGA  
CCTTTTAATTAACAACTAAAAGTTTTTTTTTTTACAATATTCCTGTTTTAA  
A

>Sequence 59

CACCGCTACACACTATTTTACTCGTAATAGTTTTTACTCATTTCCTTCAT  
GTTTTACTCCACACACAGACTCTTATTTCTTTATATATATATTTAGATTG  
TTTTACTCTTTCTTATAGTTAATATNNANCCGGGGATTGGCATCCCCGCG  
GGCGGGCCGAGGGACGCGGGAAGATCAGTTGTTTTACCTTGGCATTCAA  
AGACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCA  
CCATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCCTCCTCCC  
TAATTTTCTGAATCAGAAATTACGGAGGTGGAGCCCAGCAATCTGTTTTA  
ACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGAGAACCGCTGAT  
CTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGT  
TAATTGACTTGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATT  
TATTTATTTATTTTTATTTTATTTCACTTTACCCCCAGGATTCATAGTTT  
TCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAAGTTGTAATTAC  
AAATAAGTCTAAGATGGGAAAGTTGTGGAACCTTTATAGAGAACATGAG  
ATTTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCT  
AAGCAGTAGGGACCACAGTGAATAAAGGTAGAGATAGGTATGTTTAAAAA  
AAA

>Sequence 60

GCACCGCACTAGGTGGGATGCTAGCCGGATCCGGACAATATGTCCGCGAA  
ACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGGGGGTGCTTTACA  
TCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGATGGTCACCGT  
GATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCT  
TTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGA

Table 2

ATTGTATCCGTACCT

&gt;Sequence 61

TGGACGAATTGTTNCCGACTACCGCGGTGGCGGCCGAGGTACACGTTAC  
TGTTCCGTCGTATTTTGTAGTCTCTGTTCTGCCCTTTGGAACATCTCTTC  
GGTGTTCCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAATAATCTG  
TTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGCAGGTGATCTGGA  
GGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAG  
ATCAGGCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAG  
AAGAGAGATGCAGCAGAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATC  
AAAGCATGAGAGGAATTCAACCTGCTGCTACTGGAAGGGGTCCAGATGGA  
ACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCTGG  
CTGACAGCTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAAT  
TGACTTTAACCACAGCCTGTGTGCACTTAGAAGCGGATGCATTACAAA  
TCTTCCAA

&gt;Sequence 62

TGGGTCGTTGTCTTNTCCGCGGGGCGGCCGCCCGGCAGGACAATGATGGC  
TGTCAACTTCGTTTGTTTAAAAAAGACAATTTGAGCAGGACGACCCTCT  
CCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACGTAGGCTCGGAG  
GATGGGTACCT

&gt;Sequence 63

TTACTAACCACGATTGGATTATTTACTCTATGATTTTAATTATTGCATAT  
ATTTAATA

&gt;Sequence 64

GGGATCTTTTTGTCTTNGNCGGGGGCGGTCTTCCGNCNGACNCGGGGG  
GGCGNNGGCGNNGAGGAGAGGAGCGGCTTTAGNAGGGGGGCGCGGCCNC  
CCCAGCAGANGNCNCCAGCAGCAGNNGNNTTTGAGGCNCCANCNCCA  
CAGCACCGANCAAGNNGGNNCCAGCNCNCCACAGGGGACCCNNGGACCCGG  
GCGACGGCNGANCCAACNCNGAAGGAGNCNNAACCTTTTTTCTCTTGAG  
CGNNGNNGNCCNCCCGGACCCGNGCAAAGGAAGCCAGCNGGAGGGG  
CGGNNGNANNGACGCCCCGCGGGGNCACAAACAACNNNCAAGGAAGAA  
NNNGCCACCCACCAANCNNAGCAANACAANAGGAANCAANACAAACA  
NAACCGAAAAACGAGGAAAAAAAAAAAA

&gt;Sequence 65

TTGTGTGTTACGCGCCGAGGCGGCTGAGGGACTTTACTTTTTTTTTTTT  
TTTTTTTGGAGGAGATGGACAGTGTAGTCTCCTGATAAGGGGGTGATG  
GGTAGGTAATTTAAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTG  
CCCTGTCCACTGCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATAC  
GAGCGGGCATGACACTTACTACGTCAATTCACCATNCTCGTTGTGCCTGC  
CCG

&gt;Sequence 66

CTGTTTGCTACACGCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCC  
CTAACTTCCTTGCTATCTTCCCATCCCATATTTAGGTAGATAGAGAAGT  
GTGTATGTGTGTGTGTGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAAC  
ATAAATGAAGATATGGAATAATACATCAATTAGGACAACATGACAATTC  
ATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGT  
ATAAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAA  
TTTAGCAGTCTGTAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCC  
TTAAGTGTATTTTTGTGACCTAAAACATGAACTCAGGGTTTCCAAATTCC  
TAACAATGAATAGTG

&gt;Sequence 67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTTCAGACCTGTGGC  
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

&gt;Sequence 68

GGCGGGCGCTGACTTGGCGCTTGCGCATGCGGGAACCTCGGGCCTGCCAA

Table 2

GTGGATGAATGGATGGCGTCACGGCCCCGGGGGAGAGCCGGGGTGTGGAC  
GGGCCGCTGGTGGCGTTAGCTGGCTGACTGGCTCGGGTGGGCTGCAGGGG  
GCCGATGGCGGGTGGCGGAGTGAAGTCTGCCTCGAAAGCGGTAGCGCNGAG  
GCGCCCGATGGGGGGGGGGCGCGGGGTGGTCGGGGAACGATGCCCAGN

>Sequence 69

GGTCCCATTTCATCTTGACCCGCATACCAGGGATTGTTGCGAAGAATCA  
GTTGTGTATATTGTCCAAATCATCAAAGATACCCTGAGGTAAATTAATT  
AGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAAAA  
AGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCC  
TCAGGTTTGTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCGCG  
ACCAGGGACAGCTCTGTCAAATTAAGTTAGGTTGAAGAAAACTTTGTCACC  
TAAACCATGATTGTTCAACAGGTTTCCATCTAGAACCAGGCGTTTATAGAC  
TAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGATATGCGATTATCA  
TCCAAGCTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTGCT  
AAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGA  
ATGCTCCCTCTTCTATGCTAACTGCAGAGACAGAGTTGTCATCTAAATGT  
AATTCTCCAGATAGGGAATTTTGAAGTGAATCATAAGTGATAGTCCT  
TATGTTATTTTCTTGCAAATGTAAGTCTTTTACATACTTTTGGGAGGTTG  
GTAGGGAATTCATTN

>Sequence 70

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCT  
TTGGTTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATAC  
TCAGCCACACAGTCCAGCAGACCTATATAGTTTAAGGTTTCATGTTGAAC  
AGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGA  
CACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTAAG  
GTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TTGTAAGAAAGACGTTTGAAGTGATTTCTTTAAAGCCATCTTCTCCAGTT  
CCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTT  
GTCATGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCTTTG  
CAAGGGGATTTTCAAAGGAACTGAAGGATCACTTGCAATTTGGTTTATCAC  
TTCTCTCTGGATTGAAGATAGGAAACCAGTTTGTGGCACTCGTCTGTCC  
TCACCTTGGTTTGGCAGCTTATGCTTGCTCACGGTTCCACAGAGCAAAGA  
TTTTTCTCCACCGATCCCCGGGGTCTGGCCGACGCTCTGGGTGACAAACA  
GACCTGACTAATTAGAGTTTTTCTTGGCCCCCTTTN

>Sequence 71

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAA  
TGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAA  
AAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCA  
CAGGGATTTACAGGC

>Sequence 72

AGGTACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTA  
AAGCTAAATAACACCCAGAGTGAAGTCAAAAAATTTCTCAACTTTGCCCA  
GTGAATAGTAAGTCTAGAGTTTTTGGGTTTTTTTTTG

>Sequence 73

GCGTTTGGAGCAACACCGCGGNGGCGGCTGGNNGNTCTACCGCCCCGAAG  
CACACTNGCACAAAAGGACTTTTNNNGATGGGTTATGCNNGCCCTCCNN  
GNCCAGCNGGACCANCNATTTTTCTCCTCCTCTGAGNCTGCCTTTAAA  
AGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATA  
TTCATGCAATGGAGGNGNANCTTTTTCTTTTTTGGTTTGGGNNGCGCNA  
CGCGCCCNAGAAGAACNACGCCCCAGNAACGGGGGCGGCAGNACCNGC  
CCCGGGCGCGCCGNCAGAACCCAGGGGACCCCCGGGCGGCAGGAAANCC  
AAAACCAAGCCCAACGAAACCCGGGGACCCCGAAGGGGGGGCCCCGGGAC  
CCAGCNNANGGGCCCCAGAAGGAGGGGGAA

>Sequence 74

NAATATGACTCACCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGTGAGAA  
GAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAAAGTAGC

Table 2

CCTGTAAACAGAGGAGAAGCAGAAAAGAGAGAAGGGAGGACAGAGCTTTTA  
TTTTGCTCCAGGTAAAAAGAAAAAAGCACATTACAACCTATGTCA  
GTGTCTGTCCAGGTCTAGAACTGGAATAGACCAACCAAGCCCAACCCT  
TCTTAAAAGTAAGACTAGGTGCTTCTGATTATATATTCAACTGCCTGGA  
AGCATGCAAGTAAATTTCTTGATGGCATTCTAAAGTTCAAACATATT  
CTTCTAAAAATGCATTTACAAAAAATATTAAGATTGTGTTTTTTGGTT  
TGGACTTTAAAAAAATTGTTTTCAAACCATAATTGGGGCCTACCCCAA  
AATGGATTCTCTCCCTACAGTGGGGATTTCATTTTTCCAGTCCCCACCC  
GCTTTTTAATTTTTGATGACCTGCACCTGGTTGGGGGAGCCACTTGTGGG  
CCCTTAAAAACCAGCAATCCTTTTTGGCCCTGGCAGTGTCTAAAAAGGG  
AAAGGAACAAGCCCCTTTTGGGAAGGAAAGGGAGTTAAGCCCCGGAAGGA  
AATTTTGTCTTGATAAAAAAGGATAAAGGTGGGTTTGTGCCGGAATTTA  
ATTTGGTTTTGGGTGGCCTCCCCACACACCC

>Sequence 75

TAGGTAGCGACTCCCCGCCGTGGCGGCCGAGGTGCGCGGGGAGGCGTTGT  
GGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCTGTGCACTGAGCAGGCATC  
AAACATTAGTGGATGGCCTTGCCTCTCAATCTGCAGTAAAGAGGAACTA  
ATCTGAAAGGGAACGATAGGACTGTGTGTCTTTTATTTTTTAAATACG  
GAGTGTGCAATTTTACTGAATCTTGAATCATGCCAAAAAGAATGAGCTGT  
CGGTGCTGCAGTCGTGACCCAGGCTGA

>Sequence 76

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT  
TATTGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAACTGAGAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
GACATTCTCACATAAGCCCAGTTTCATCACCATTTCCTCCTTACCTTTTA  
GTGCAGTTTTCTTTTTCACATTAGGCTGGTTGGTTCAAACTTTTGGGAAG  
CACCGGACTGGTCAGTTTCTTTTGGGAAAGTGGGGTCATCGCATTTCTTG  
CAAGGGCTTCTCCTCCTCTGGTCTTTTGGGAGAACCCGGGGCTTTTTTCA  
CGGGGCTTTAGGGAAGTGGTCAGGCTGTTTTCAACCAGGAAG

>Sequence 77

CAGGACGCGGGGAGACAGCAGAGAAGGATCACTGGGCTGGAAGCTCTAACAG  
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA  
CCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC  
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG  
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA  
CACAAATGTTTCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCTGG  
CTTCTAGTGAGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTT  
GTCAAGAAAACCATTAATTAGGTACCCTGGCCGCTCTAAACTTATGG

>Sequence 78

ATACCGAGGCCGGGAAGGCAATATAAGATGTATAAAGCCCTCGGGGTGCG  
CCTAAATGGAGGTGTAAGCTAAACTTCAACATTTAATTTGCCGGTTGCC  
GCCTTACCTGGCCCCGCCTTTTCCAAGTTCGGGGAAAACCCCTTGGTTC  
GGTGGCCCAAACCTGCAATTTAATTGAAAATTCGNGGCCAAAACCTGCTCC  
CGGGGGAAGAAGGCCCGGTTTTTGGCGTATTTGGGGGGCCGCTTCTTTCC  
CGTTTTCTTTCGCTTCAACTTGAACCTTCGCTTTCGCTTTCGGGTCCTTT  
TAGGCTTGCGGGCAACCCCGTATTCAAACCTTAACCTTCAA

>Sequence 79

GAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACA  
GAGGCAGTTCAGATTTCAACTGGTTCATAGATGGGCGGGAGAATGAAAA  
CAGATGGTGCAGCCACAGTTCGTTTGATCTCCACCTTGGTCCCTCCGCCC  
AAAGTGACCGATGTCCTTCCATATTGTTTACAGTAATACACTGCAGA

>Sequence 80

GAGATGCCGGGGGTGCCGATATACTGTGCAGAGGTAAAGGATATAGTGGC  
TACGATTACGGCCTCTCT

Table 2

## &gt;Sequence 81

TAGATAGCTCCCGCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTG  
GACCAGCTGAGGCAGGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCC  
AAAGGGTAAGCACAAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTG  
GGATTAGGAGCCCGAGGGACCTACTTTGCAGGAACCTAGCATAACTTTGT  
GTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAA  
ATGGAGAGCAGCAATTGGAGCTTCAGGACCGGCTTGCACTGTGGCTCCAG  
GTTATACCACCACTGCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAAT  
GCTGGAGAAAGCTGCACCTACAGGCAACCAGCACTTTAAAAACCACTCC  
AGGCAAAGTAATGGAAGGAAAAAGCCCTGCTTTTCAGTAACCTGGGCCT  
G

## &gt;Sequence 82

GACACCATACGTCTCTGTGTATGATCTCNCTAAGTCATATCGTGTAACGT  
GTACACTTACTCATTACGCATATATNTCAACGTCAACTTCTGTTTCTCTC  
AGGTTATTATTTCACTACTTATATCTGTTTCACATCAGTAACATCGT  
CATATCTCTACGTCTTTAGTGATCTATTGTATTTCTAAGAGAGACTCCGG  
TGGCGGCCGAGTACGCGGGGAGTCAGTCTCAGTCAGGACACAGCATGGA  
CATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAG  
GTGCCAGATGTGACATCCAGATGACCCAGGCTCCATCCTTTCTCTGTCTTG  
CATATTGGAGGAAGACAGAAAGTCACCCATTAACCTGGCCCCGAACAAGTTC  
AGAAGCATTTGCCAGGGTATTATGTAATTGGGTTTTCAACCAAAAAACC  
CAGGGTATAAAGCCCCCTAAAGGCTACCTTGAATCTTATAGCTTGCCA  
TTTCCAGTTTTGGCAAAAGGTTGGGGCGTTCCCCCAATTCTAAGGGTTTC  
AAGATGGGCCAAGATGGGATTCTTGGGGGACAAGGATTTTTTTACCTTCT  
TAACCCAATACAAGGCAAGTTCCTGGCAAACCTCTGGAAAAGAATCCTTT  
GCCAAAACCTTTACCTACCTTGGCCCAAACCAAGGAGTTTAACCAAGTGT  
TCCCCCTTTGGGAACCGGTTCCGGGCTCGCCTTTCTAAGAAAACCTAAG  
ATGGGAATTCCCCCCGGGGCTTTTGCAAGGGAATTTCTGATTATTCAT  
AGGCCTTTAATTCGAATACCCCGGTCGGAACGCTTTGAGGGAGGGGGGGG  
CCCT

## &gt;Sequence 83

GATGAGTCGAGTGGCGGCCGAGGTTCCCTTGTGTCAGCTCTTTATTTCTTA  
GTCCCACTCCCCGAGGTAACACATTTCTGCTTTTTTAGCTGTTTCCTCT  
AGTGTAGGTTACCTTTCTAATTTTGTATTCAATCACTTAACCACCGTTA  
CATACTACAAAATATCACTATATTATGACCATGATTATATTTCTTTCTT  
TTTCCCTTCATCAAGGAAGTTCATCAAAGAATTCATCAAAGTTCATGA  
TGACCTCTTTTAAAAATTTCTTAGTATTCTATGTAACATTAACCGATCT  
TTTCCCCACACACTTCAAAAACCTTTTAATTATAATTTTTTACATAGCCC  
TTAGCACAAATAACCAATCCTTTTTTTTTTCCCAATAAAAAATGTGCCTTT  
CGTAACCTTTGTCCTCTTTCTTTTACCTGGAATATTGCTTTTTTAAGGCTG  
TTGTGCAACTTAGAACTTATTTCTTATTATTCTGGGGTTTCTTTCCCT  
TTTTTTGTCTGGAATCCCTTTTGCCGGAACCT

## &gt;Sequence 84

CTCTCTTTTCTCTCTACTAGTACATCATACTAGAGTATCTNTGTATTT  
TCACACTGATANGGTAAATCTGTAATAACATTATTTCTTTATAATGATAAT  
AATCTAATTCATGATCAATTATCTATAGATCGAATCTATACTCTTACATC  
TCGACTCTACGATACTTTAATATAGAGATGACTCCCGCGGTGGCGGCCGA  
TGTAATATGGCCTATATGGGATAGAAGGTATTTACCACGCACACAACAAA  
CGCAGTTCCATATTTTAAGTCTCATCATATGGCGGTAACATGGGGACAT  
ATGGTGCAACCACACTTTCAATTTGATTTAACACCTTGGAACCCCCGGCC  
GCTCCTAGAAACCTAATTGGATCCCCCGGGGCTGGCAGGAAATTCGAA  
TATTCAAAGCTTTATTTTCGATTACCCGTCCGACCTTTGTAGGGGGTGGG  
GCTCCCGGGTAACCCAAACTTTTTATGGTTTCCCTTTTTAAGTGGAAG  
GGGGTTAAAAATTTGCCCGCGGCTTTGGGGCTGTAAATTCAATGGGCTAC  
AATTAGACCTTGTTTTTCCCTTGGTGTGGAAAAAATTAGGTTTAATTT

Table 2

CCGGCTTCCAACAAAATTTCTCCACCACCAAACCAATTAAACGTAAGCCC  
CCTGCGGGAGGCCAATTA AAAATGTTGTTAAAAAGACACTTGGGTGGGT  
GCCCCATAAAATTTGGAGGTTGAAAGCCTTAAACCTTCAACAATTTAAATTT  
GGCGGTTTTTGCGGCCTCCAACCTGGCCCCCGCCTTTTTTCCACAGTTCC  
GGGAAAAACCTTGGTTCTGGCCCCAGCCTGCCCATTTAAATTGAAATAC  
CCGGCT

>Sequence 85

TTGATGTGCTCACCGCGGTGGCGGCGGGTACTTATATTACATTATGCTAA  
AATGCAAACATCTTATGCTAAATGTTATATTTGGGAACAAATGTTGTA  
TATACTGATGACGTCAATGGATCATTACAATTAATGTAGGTGCCGTGGGC  
AGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTTTAATG  
GGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAA  
ATATAGTTCTTTGTTTGTCAAGAACAACAATCCCATTTTCAACAGAACT  
AACCTGGCATGCCATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGC  
AAGGATGGCATTCAAGATTTTCAATTCCTTTGTTCCACGGGGAGGCCCTTT  
CTTTTAACTTCTTGAAGCAACATATTTGGCAACAACCCTTCATTTTTTT  
TCCCCGGTGCTTTACTGTTTAAGCCCTTGGG

>Sequence 86

TGTGAGACTCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATT  
CATCCACCGAGGCCCAACAGCATGGATGATCTGTTTGCAGGGAAGCCTCC  
CTGCTCCCGTGACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCA  
ACAACTGTTTGCTCTCTTCTTGGATTTCAAATCCACCAGCTTTTACCAG  
GGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATTCA  
CCACAGCATCAACAGCATGTGTGGTGAGGTACCTTTCCACACTGATAAC  
TCTATCCTAGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTT  
GCCTTCTGAACTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCT  
GGAGGACTTCACACAGCTGACGCTCATTATTGTTTAAAAATTTGAAGTCA  
TTGTGGTTAATGGGAAATTTGCCAACTATAGTTTTCTCCAAGAGCACCAA  
TCTCTGATTTTTCATG

>Sequence 87

GTCTTCACTTTTACTTTGTTGCTATAAGTTTTTACTTACTTTTCATATTA  
TTGCGTTTATAATTTGTTTTATTGTAGTTTAACTTGCCTTGTACTTATT  
TATATTATTGTTATATTATAATAATCGACGCTTGACTACCGCGGTGGCG  
GCCGAGGTACTCTTCAAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTG  
AAGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGAC  
TGGCTGGGCACGGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGG  
GAAGGCCGAAGAGGACAGATCATCTTAGGTTTGGGAAGTTGGAAGACCGA  
GCCCTGTACCCAACGTGGAAGAAACCTCCCATTCCTCTACTTAAAAATAC  
CAGCAAATTTAGTCTTGGGTGGTGGTTGGGTGCCATTGCCCTATTTAAAT  
CCCCAGCTTACCTTTGTGAAGGGGCCTCCGTGCAGGGAGTAATTCTACTT  
TGTAACCTCCGGGGAGGGCAGAAGTGTTTGGTTGGGTGAGGCCCAAAAAT  
TTGCCGCCCAATTTGCCACTTCCAAGCTCTGGGGCAAACAAAGAAGCGAAA  
TATTTTTGTCTCAAAATTA AAAAATAGATTTTTTATATTTAGGGGTAC  
CCTGTCCCCGGGGCGGGGCCGGTTTTTAAAAAACTAAGGGGTGATTCCCC  
CCGGGGCTTGAAATGGAAATTTTCGATTTT

>Sequence 88

TCGGACCGCTTTCAAGNTACAGAGGGTGGGCCGAAAAACCCCGACCAGGG  
ACCTTATTAAAGAAATACCAAGGCCCGTTTTTCCCTCTGGGGAAGCTTC  
NCCTCCGTTGCGCCTCTTCCCTGTTTCCCGACGCTTGCCCGGCTTAACC  
CGGGATTACCCTGTTCCCGCCCTTTTTCTTCCCTTTCCGGGAAAGGCGG  
TGCCCGCCTTTTCTTCAATAAGCTTAACGGCCTGGAAGGGTATTTCTCAA  
AGTTTCCGGGGGGTAGGGGTCCGTTTCGGCTTCCCAAAGCTTGGGGCCTT  
GTGGTTGCCACCAAAACCCCCCCCCGTTTTTAAACCCCAACCGCGGTGGG  
GCCCTTTATCCCGGGAAC

>Sequence 89

CGGTCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTC

Table 2

AGCTCTGAGATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTC  
AAAGTGATTCTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTT  
TTTCCCATCTCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAAA  
TGTGCTTTCTTCTTGTCTTTTCTTTCCATGCACCGTTTCACTTCCTCTAA  
CTCAAATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAAACTGACATTT  
GCTTCTCCAGGTCCTGTTTTTCCGCTCAACCCCTTTCCTTAATCTTCAG  
ACCTCCCCTTGGTCAACCTGATAAGTTTGAG

>Sequence 90

AGGTACGCGGGATCACAAAGCAGACAAACAGGAAAGACTGAACCATCTAT  
TTGAAAAAAGTGACTTCATTCAATTGGTTTCAGCCACCCGTATCTGTAATC  
TCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTT  
AAAAGTGCCTCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAAT  
TCAGTGTGACACAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCA  
GAGTTCTTTCATCTGACTTTGCTGACATTTCCAGCAGCTGTATATTTAAT  
TCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAAGCAG  
GCATCCTTGAGCTTCTTCTAGGAACATATACAGATGTGCACAAAATTTTC  
ATTTATTCAAGTN

>Sequence 91

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGC  
AGACAAACAGGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTTC  
AATTGGTTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGAT  
TTTAATGCAGCTATAAAGGAGAGTATTTTAAAAGTGCCTCCAGTAGGAA  
GAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCTGA  
TTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTG  
CTGACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAA  
ACTACAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAG  
GAACAAATACAGATGTGC

>Sequence 92

NGCGCTTAGGAGCNNACGNCGCGCGNGGCGGCCTGNCCGNNCNGTCGCAG  
CCCCANGAGGNCACCAAGCANCCANCAACCCCTACCGNGAGNNGTGAGGCA  
ANGGCCGCCAGGCAANGGCACANCAAAANCCGGTTTTTCNGCNNNGAGCAC  
NGNGCACCCGAGAAAACAAGGNCNCAACNACNGACNGGCCAAGAAGGGGC  
CCGCCCNNGGCCAAACNNACCANACAGNNNAGAGCTTTTTTTTTTTTGGT  
TTGAGCACCGGGACTATCCTCTTGACTACAAAGTACCT

>Sequence 93

GCGATTGGAGCAACCCGCGGNGGCGGCCTGNCCGCCGCTACNNNAATCAN  
GGAANCNNNGCTNNNNGNCCAGATGCTTTGNCGNTTCTTTAGACACAGNG  
GCTNNNGCAGNNAACCCNACGTTTAGAACNNGGGGGGCGAGCCCCGAACG  
NCNAGAACAGNNGACCCCCGGGCGCAGGAANNCGAACAAGCNAANCGANA  
CCGNCGACCNCGATTTTGTTTTTTGGCGGAGCNGNGNGCCCNCTCCCGA  
GGGAAAAAAGCGCGCTCNGGCCGAAGG

>Sequence 94

TGCCCGGGCAGACACAGCTCCATGAGGTACCAAGCATCCCATCACCCAT  
ACCGGCAGTTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCG  
GGCAGCGTCTTGAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTG  
ACTGGCTAAGATGGGGCCTGCCCTTGGCCAACTTCACCATACAGTTTAGA  
GCAATCTTTAAAGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAG  
TACCT

>Sequence 95

AGGTACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAG  
TTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAA  
CTAAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCCT  
GCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCG  
AAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTA  
TAATACTGTGTGTAACCTTTTGCATATTTTCAGAAAAAGAAACCAGTAAGG  
TGGGTTCAAGTTGTGGGCTCATCCTGACTTAGAAAAATTTAAATAATTTAG

Table 2

CCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTTGCT  
TCTTTN

>Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACA  
CCCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCCGAGTCGCCT  
CTCCCCGCCTACCT

>Sequence 97

GTATGTCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGG  
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TTAGCATAACAAGGAGGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGA  
CAAGTTTCATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGT  
TTGGGATGGAAAGAAATCGAGAATTGGGCT

>Sequence 98

GGTTCGATGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGAT  
GGCTTCAAGATGATTTAGGACTTGGGTCACTAGCACTTACTGATGTAGTG  
GTTTGATACACACTGATTACCTTCTTCTTTTATTCTCTGGCATTCT  
CCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTCTTCTG  
CTTGCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTC  
TTCTTACTCCTGGCCTTCTTGGGAGAGTTCATAATTCACCTACTCCAT  
CTAGATATTTGTGATGTCCAAACACATCTCCAGTTAGGCTTCTATTTGT  
AGCATCAGACCCACACTTTCAACTGTCCACTAGATAGCCTCACTTGGATG  
CTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGGAAAAAATAT  
TAATAGGAAAAAATATTAGATTTTATCTGATGTAAATTTCTATGTGG  
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AGN

>Sequence 99

TCTCTTACACACTCTATATGCATATAATTACAATCCTGTTTATATAGTAT  
CTTTCTTAGTATACTAACAATCTATTAGTCAAAATATATATATATAGAT  
TATACTAATTATCTAAACATCCNCANTAAAGAACAGTTTCCATTCTGA

>Sequence 100

GGCGAGGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAATATGTTTAAATATGCATATCATCCAGGC  
AGCATAATGTTATATTTCAAAGACAGATTTATCCATTGAATTATTGTTT  
TAAAAGTTGGGATTCTCTACATAGAACATATTTCTGAAATTTCAAGAAT  
ATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTC  
TCAATCTATCCATAATATAATCAATGATAAAGATTACATGTATCACCA  
AATTCGAGGCAGCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCCA  
TTTGCTGATTCTGGGGGGGCTTCCCAATGGCATGTGTGCTCCTTTGGAT  
GCCTGCAGGGGTGGTCACTGCAAAGTCGTATCTGTGCCACTGGGAGTTG  
GGAGGCGGCCTGCTGGGGTTCCCTGGGTGGCAGGATTTACACCTGCTCCT  
CCTGCTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCTG

>Sequence 101

CTCTTCATTTACACTCTACTGTATTGTTACTATAATATACTTATATATCT  
TTTCAGTCTATAATTTGTATCTTATAAATTTTATTATTCGTACTTTCTAC  
TCATTATTATATATATTACATATTAATATTTAATATTTTAGTTAGGAGCT  
CACGTGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCT  
TTTAAACTCTTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTA  
TCACCAGCCTCTTCTCTGCATTCTTTCCCTCCTTGTTATGCTAAACT  
TGTGATGGCCTCTGAAGATACTGCTCTTACCCCTCTGAAGGGGGTCTCC  
TCAGGGGAAGGTACCT

>Sequence 102

TCGAGGTACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTC  
TATAAGATTAAAAAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAG  
CAGGAAACAAAACCTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAA  
ACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAC  
TGAGGTTTGATGAAGAGTCACTGAAGTGTACAAAAGAAAACAAGATTTGA

Table 2

GAAAGATTCTTGAGAACTCGTG CATAGGAATGAACTGCAATAAGGGCAGA  
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GAGGGACGCTGGATGTGAGCAGC

>Sequence 103

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GTTTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAA  
TTCTTAAGTCCTACCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCAC  
AGCTTGCCCTCACCCTCCCCTCTCTATGCCCTCACCTTTGCAGGAGACTC  
TCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATT  
TTTTCTAAAAGACATTTGTTCCCAATGTTCTCTGACTAAAGTTCCTTAC  
TTTGGGACATTTGCCCTTGGCACCTCAAGGGCCCTTCAAATACGGTTGAG  
ACCGAAAATTTTTTAAACTCTAAACAACCTTTGAAAAATTGAATTTGG  
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ATTTTCACCTTACCCCCGGGGGGGGCGGGTTCCCCCAAAAAATCTCAA  
TTCCCTTATAAATTTTCAGCGCGTGACACACACTTTCTAAATCGCGCGC  
GGGGTGGGGCGGTCTATTTCTTCTCTCTCTTCTTGTGTGGGGGGC  
CG

>Sequence 104

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TGCATGCATTCTCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAG

>Sequence 105

GACGATGTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTA CTCTTAGG  
TATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCCG  
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TCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAGATAAATCTTG  
TGCAAAACCTGAGCTGATTTTCTCATCTATAAATGGAAACAATACTTTC  
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TCAAGTTTCTTCTTAGTTTCAAAATTTTAAAGGGAAACCAAAAAATGTTT  
CATGGCCCAACTTTGCAGAAAAGGATTTTTCCTCAAAAAAGAAATTAAGG  
GGGGGTTTTTTATGGGACCCAAAAGGCGTTGTGGCCAGTTTTAGTAATT  
TTATAAGTTTGGGACTCCTCTAACACCTTTTATAAAGCGCCCCCTTGG  
GTGGGGGGGGTTATTTTGGGGGGGGGGTAAAAAAAAAATTTTTTT

>Sequence 106

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GGTTTGGGCATCAGCTGCCATTGAGGGGCCGTTTCTTGTCTCAAAGTGA  
ATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGTATCCACACAAGTTAAT  
TATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGC  
GTCTATGTGCAGCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCA  
CTCTTAATTTATGGGCACAATTTAGTTTCTTCCACACAAATTTAGGCCTT  
AACTCTTTTATTTTCTACAGTGGGGGTTTGGAGTAATATTCATACGG  
CATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGTTTACATCCCTGA  
TACCTCTCCAGACCGTGA CTGTCCAGTAGTTGGAGCACAGTCTGCTTTAT  
TGTGGTCCACAG

>Sequence 107

TGTTTTGTGGTCAACEACGCGTCCGAAATAATTGCAGAGAAAGCTTGCCA  
ACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGAAGTTGA  
TGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCT  
AGTAGTGTCTATGTCAATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGT  
CTTGGAAATAAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATA  
ATGAATAATAAAGAATAATGTGAAGGCTTCAATCAAGGTTGGGGTTTGCC  
AGATACATTGCACAAAAATGACAGAGCAGCCAAGGTATTTAGGATAGTGG  
CCAAAGGATTGTAATGATGGCTTATGGAAGTGTCACTGGATAAAGAGTG  
AAAATGAATAAAAACTAATGGATTGGTTCAGTCGAATAGCAGACGGCACA  
ATGGCCCATGGCCCGTTAGAATAGGGACCCAATTAATGGAGACCAGTCA  
AGTGGGGGGGATCAT

Table 2

## &gt;Sequence 108

TAAATGTGCCACCGTCGAATGGATTCTACATCAGGTGTCTGTGCCTCGC  
TGCTGAAGGATAACCCAGAGTGCAAGGTCATCTTTGTTGCTGAACAGGGC  
TGGACCTGTGCACTTAAGCACACTTAAAGGATTCTATTCTTCATTCAGG  
TCCCCAGAGAAAATTGGCTCCTTATTTTTCTTTACCTATTCTAGACTTC  
CTTTTGTCTAGAGCCAGTTTTGCAAAGGGCACTTTTATCCATCTCAGTTA  
TTCCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATAT  
GAGCTAAACCAAGTTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTA  
TTTTTTTTTTTTTAATCTTCTAACGGTATTTCTAGCTGTACATTCCCAA  
GGAATGGGTGGAAGCAAATCGATTCTGGAAGGGTCAATGGTCTTCCAGGT  
TAGGGAGAACCCAGTCCAAGGGCCGGGGACCTTTTTTCTTGGAAGTGCTG  
AAACCCGAGTTTTTC

## &gt;Sequence 109

GAAAAGATGTGGAGCTCCACGCGTCCGAGACACTTCTCTGACTAACCAT  
AGACTATGTGGAAAATGGTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCC  
CTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTTGAGATTAAT  
GAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACG  
AACGCGTGGCCCCCTAAGGGTCCTAAAGAGAGAGCTAGGGGAGGTTGAGCT  
GGCCACAGAGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTT  
TATAGGTTTAAAGACCAAGGTCGTGTTTTGATAACTGAACTTGCTAATAG  
CTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTGTTTGTTTAAATAAAGA  
GATTACGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCCCCAGTTGGG  
AGTGCCTGCTTGTTTTTCTTCTGCCTGGGCATGCTGATGTGCAGGCCAC  
ACTCACAGACTTACACGTCTGAGGAGATAGCCC

## &gt;Sequence 110

TGTTTGCACGCCGTAATACACTCCTCTGTTTTTACAGTGCTGCCTGCACT  
GTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAGATTA  
TAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCAT  
GGAAACAAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCA  
TTTAAACAAATTTGATTGTTTCTTTGCTATTAAGAACTCGGTGCTCTTT  
CTCCCACTCTATTATATTGTCAAATAACATCTGGAGACACTATATAAACT  
TTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGCAT  
ATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAA  
TATCTTCTTTTACAAATCATATAATTTTGTGTTGATTTTTTTAGAGAC  
AGGAGTCTTGCTATGTTGCCCACTAGTTTGGAATGCCTGGCTTTAAAG  
GGAATCTTTACCTTAGCTTTTTGAGTAGCCGGCCTACA

## &gt;Sequence 111

GTTTGAGGGCGACACGCGTCGCGGGATTGGACCGACCGAGCCATGGTAG  
GTCCAGATCCCGTAGAAGGGAGCGGGTCCCATAGGTTACGGCCGATTCC  
TGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC

## &gt;Sequence 112

GTAAGAGGGCGCGTGGCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCC  
ATGAGGTTGGTCTGGGTGAAGAACGCATCGATGGCGGCACGGGCCTGTTT  
CGGCACGTAGACCTTGCCGTACGCAGACGCTCCAGCAATTCGCGCGATG  
GCAGGTCGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGC  
AAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAG  
GCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAG  
AGAGCAATTCCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGG  
GCGTTGCTGTGGGCCAGTTGTCACCAGCACCAGGTTGGGCTTGGCGGC  
GAGCAGGCCGTCTAGGGCCATTTTCTTCAGCATCTACCGCGGTATTTGG  
AGCGCACAAACGGGTTTTGTGGCAGGCCGCTTACCAAGGCTTTCGGCTTG  
GCGCGGCCCTGGGTTTTACCACCCCGG

## &gt;Sequence 113

GGAGATGTGCCACGATCGGGCGCGGCCAGCCGACTGGACCCCTTAGCCT  
CGAGGCCTTTGCTGAAGCTCATGTGAGGGGGCGACTGCCCTGACAGGTG  
TTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGGAAGAACGGGA

Table 2

GAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGC  
AAAGTCAATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAG  
GGTCCCGCGGTGTCGTGGCTGCAGACCCTGCAGACCCTATGAAGATGGT  
CCTGCCTGCCTTGCATCGGGCCTCTAGCTAGGGAAGTGGTTGCAGACGT  
ATTTCTGGGACTGAGCCTCTGGTTAGAGGCCAGTGGTGAGGGAAGAGAGA  
CCATCAGAGAAAAGAGTGGAGCCTCGGGCTTGTTAGCAAATGGCAGAAAC  
CCGACCCTGCAAGAGGAAAACATTG

>Sequence 114

TGGAGATGTGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAG  
CAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAG  
ACGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCT  
GTCCAGCTCAATTCTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTT  
GTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTT  
GACAAAGAAATTGGCTGCATCCAATAGAATCCAGGGCCGGTCGTGGTGG  
CTCATGCCTGTAATCCCAACACTTTG

>Sequence 115

TACGTATGACTCACCGCGGGCCGGAATCGTTGTACCAGACCAGGCCCCCA  
GGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAG  
ATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGTTA  
GTTGGTCGGAGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAAC  
TCTATCAGGGTACCT

>Sequence 116

GGTGATGATGAGCTCACCGCGGTGGCGGCCGAGGTACGCGCGGTAGGCGGTG  
TGGACCAGGGGCTCGTCGGTGGCGGCCAGCGAATTGGTGACGACGCTGAT  
CTTCAGGTTGCGCCCGCGGATCTCGCGCATCACCTCCAGCCCCGTGGCAC  
CCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACGCGCGCGGCGC  
ATCTGCTCGACCACGTTGTAGCGCACGCTGTGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTACGGCGAATCGGCAT  
ACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTC  
TTCGACCATCGGGCTGTAGCCGAGCAGGGTCGTTGGGCGCGGGGGCTTCG  
CGGGGCCGNCGTTGGTGTGGGGGCCCCGGGGCCGGCGTTCAAAACCGCTT  
TTGCAAATCTTGCGCGGGCAAGGTTGGTCGCCAACAACGACTGGGGAA  
TCGGGCCGCTCTTGAAACAGGGTGGGATC

>Sequence 117

GATGATGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTC  
AGGACTGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAAC  
GTCAGTTGCTGGCTTTTCTTAAATTTGTCTTCTACCTCAGATCTAAACCA  
TTTGATAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAATCCAT  
AGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTCACAGGAAAAATTTT  
CTCATAGAAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAAACAACAGTAGGGAGCGTGATTAGAATGTCTTGGGT  
GCGTGAAACAGGCAGACAATCCTGAAACATCTTTCTGGGGACGTAAGGC  
ATGAAAAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGAC  
AAAAATGGAATGGGCTTCATTCAATTTTTTTTAAACACATGCCTTACAG  
GTGAGGTTCTTGAGGGGCTGGAGAAGAACACCAACCTTTACAGT

>Sequence 118

TGTAGATGACTCACCGGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAG  
CAGCGGACGTGAGCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGA  
CGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGACTCAG  
ATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAA  
AGTGATCAGGATGAAAGAGGTGATTACAGGACAACCAAGTAATAAGGAACT  
GTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTG  
ATAATCACTCTGAAAGATCAGACAATAGATCAGAAAGCTTCTGAGCGTTCT  
GACCATGAGGACAATGACCCCTCAAGATGTTAGATCAGCACAGTGGGATC  
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Table 2

GCCATCATTGAGAACGGAAGGTTCTGAAAAGCACATTCAGATGATGAAAA  
GGGGGCAGAGAAATAAAA

>Sequence 119

TAAAGCGACCGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACG  
GTCCCTGGCCAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATA  
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AACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGT  
GCTGTGCCATTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTT  
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACA  
ACGTAACCTTTGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAA  
GAGGAACCTTATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGA  
TGAAAATCTGGTGACAGGTCAGCGGTGGCAGTGACCTGCCCGT

>Sequence 120

AGACTGACCGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATG  
AGACCGGGAGCTTTTTCTGTGCTAAGATGCCGTTACGGAAACATCGCTGTC  
GTTTCAAGAGCTATGGGCATTGTTTCACA

>Sequence 121

TGATTAGATGAGCTCACCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTT  
CCTTGGTGTAAGGCTTTAACAGTTCCACCTTTTCAGCTGCCTGGGCATTG  
ATTGCTCACCTACCCTATGACTAGATATGATTCCTGCTTTTGGACTA  
GATTCCTTTGCTCTTGTGTATGGAAAGTGAGACTTTAAGTAATAGTTACT  
GCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCCATTCAGTAGTC  
AGCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTTGTTTTAC  
AATTCAGCTATTCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTT  
CTTTCTGTAGTTGCTCTCTCTCCCTATATTCTGTTGTATTTTTTTCAAAT  
AACTTATTACTATCTCAAGTAAAATTGTTTTATGTTTTGTTTTTATCTAC  
CCTCTTAATCAGGGCAGGGATATGTCTGTTGTATTTTACTTTTCCCAA  
ATCATAAAGTTTTTGGGAATCTGCTGGTTATTA

>Sequence 122

AGGTACACACTGGATCTCCTTACTCATTTTTTAACCCTGACTGGGACACCA  
GAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAAGATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTTACATCAC  
TGGCTTTTATTATTAATGAATGTTGGCTGGAAACAATTTTAACCCCAA  
ATTGTGACAAACAAAATATATGAAAAGGTCCCTGCCCG

>Sequence 123

GTTGATGCTCACCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGTGCAA  
CTGCAAAACAGTAACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCC  
CCGTATTGCCAGGCGGTCTCAAACTCCTGGGCTCAAGCAATCTTCCCG  
CCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGC  
CAGAAAAACGTTTCAAAATATTGAAAACCTTACTTTTTTCAATGAGCATT  
TTTGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCC  
AAACAGTAAGGTGAGAATTTATCAAGACATTACATAGGAGTAAGGGCACA  
GCCAGGGGTGGTGGGNGGAAGGACATTTTCCAGCACTAATTAACAGGTT  
TTATGATTCACTAGGTTGGCCCACTACTGTTCTCACCTAATCCCAGGC  
CAGCGTGTGAGGAGGCCAAATGACACTNTCCAGTGCAAGTGCTTGTAGTA  
TGAAGGGGGCAGAGATCACCTAGTGACCA

>Sequence 124

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCC

>Sequence 125

TTAGAGATGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAGACTTT  
CATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGAT  
TCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCAT  
TCTTGAGAGGGGAGACAGCAACCAATAAACAAATTACAAAAAAGTATGTAA  
CTAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAGAAGTGGAAAG  
GAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAAACATGTAAGC  
TGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAAT

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Table 2

AAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAG  
AACATGATCATCTTTCAAGAACTAACCTTGAGATCAGAGTAGTTTGATT  
ATAGAGGAAAGGGGTGAGTGCAATGAAACGTAAAAATAGCCAGATCACG  
TAGAGCTCTCTAGCCTTTGGTAGAAAAGG

>Sequence 126

TTATGATGATTGAGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTG  
AAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA  
CTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGG  
TCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTA  
TTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAA  
TTGCTTGGCANAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGNNGCGT  
GTGATGGANNAGGTTANAATTTTGAATCTACTTCAGTGGGAATTGTATT  
CCGACCCTCGGCCGGTTTTAGACCTAGGGGGATCCCCCGGGCTTGAGGA  
AATTCGATTATAAGCTTAATGGATCCCCGCCCACTTTAAGGGGGGGGGCCC  
CCCCCAATTTTTTTTTCTTTAGGGAAGAAAAAACCCCCGCGGGAAA  
AAAGGGAAAAATTTTTTCGGGGGAAAAATTTCCCTCCAAAATTTCCA  
AAAAAAAAAAGGGG

>Sequence 127

ATATGGCTCACAGCTCGGCGGGCGGGTACTGAAAGTGAGGTGAAAAACA  
AGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAATA  
AATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAAGCTCTCAAC  
CTGTAAAGAATTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGGCAG  
AAGGTTAGCAGATATAGTGATAGAGCATACACAGATATACTATAGTTCATA  
ACACTGGTGGCTTAGCTGTAAATCAGAAAAATAGCACTGGAATTATACTAG  
TGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATCTTGTTCTTAAA  
CTTTGTGGAGCCAGTGAGTGAATGAGTCACACAAAGATGCAACAATGNAT  
GAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCAACATAT  
TACAATAAAAAATCAAGACACATGAAGGAGCATACCTTTTCTGAAAGAAA  
TATTGCTTACCTCAGTCTCTATGGNTATTTGATGCAAAACACCCAGCATG  
CAATTTGAATCAATAAGACATGGAAAGGGAGCAAAATGTAACATCATGCTA  
AAGAAAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGATCCAGAAATGT  
TAAAACCTTGTCATTATAAGGGAGGGAGCTTTAAATACAATATNTAATT  
TAGAACATCTAGTGAAAAATGTGATCAGATTTATCAAGTAATGGAATTTGA  
ACAGAGACGTAAAAATGCTATATTTACAATNCATATTTTATATAAAAAAGAG  
TTGTTAAAAATAAAATTGTAaaaaacaatgTTTCAAAAATAAGATTATGTN  
GATGGCTTACAGTTGAATAAT

>Sequence 128

GTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGG  
CATCTTAGCACGAAAAAGCTCCACGGTCTCATTCACAGCCTGGTAGCTC  
GGTACCT

>Sequence 129

GAGACTACCGGGTGGCGGCCGCCCGGCAGGTACAGTCAAGGCCGAAAAAC  
CACTGAGCTTTTCCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCTT  
CAGCTGATGAACTCTTCATATGCCTCCTTTTGGGTGTCAAGTGGAAATGTC  
ACTTCTTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCCAGGGCTCCA  
GCTATGAGCTTCCATAACACCCCTAGTTTCTCACATTGCCCTCATAGT  
ATATGGAATTTGTTCAATCAATTGCCTGGCTTCCAACAGATGCCAGCTCC  
AAGAAGGCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACA  
CCCAACCTAATGCCTGGGCCAGAGTAGGTGCTTAATAAAAAATTTGTTGA  
GGCCGGGCGTGGTGGCTCACGGCTAATCCAGCACTTTGGGAGGCCAG  
GCAGGTTGGATCACGAGATCAGGAGATTGAGACCATCCTGGTTAACACAG  
TGAACCCCGTCTCTACTAAAA

>Sequence 130

GAGACTACT

>Sequence 131

GACAGTGAGCTACCGCGGTGGCGGCCGCCCGGCAGGTACCTATCTGCAG

Table 2

AACGGTCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCG  
TTAATTTTAAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAA  
TTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAAT  
TTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTAG  
TCTGTAGACCCCTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACT  
ATTATATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAA  
ACCTGGAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGT  
TGCTGCATCAAAACAGTTCTGATACACACACCTAAAGTCACCACTTCCTC  
ATTCTGGTCCCCAATAACCTATAAGCCTCTCTCCTTGTAGGTGACCTCT  
GCCCTGTGAAGGGTGGCTCACCCCAAGATTCCATAAATAAGTTG

>Sequence 132

ATACGACTCCCGCGGTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCG  
TTGGCGGACGGAACCTTGAAGATGTTCTGGGCGGCCAGCACAATCGCCGC  
CTTGCCGACGATGACATTGTTGGCCTTCAGCCCGTCAATATCGCCCTGA  
TGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTC  
GCCTTGCCGTCGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATC  
GCTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCTTCTTGTCTGGG  
TGACATCACCGCGCAGCCGCGTGCCGCCGGCAATGAACTGGATATTGCTC  
AGGCGTTTTTCGTCTTGTGCAGGGCAAGTTCGTGGCAAGATCGGCCCG  
CACGCCGTCGAGGAACGCCAGACCGGATACCTTGCCGTCCGCGCTCCTT  
GACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCCCGAAA  
GTTTGCCATCCGGAACCCGGCATTGAG

>Sequence 133

GATATCGAGCTCCCGCGGGGTGGCGGCCGAGGTACGATAATTCATGCCA  
ATTTCTTTGGGAATACTTGTCTTCTGATATAATAGGTTACAAAGCAAAAT  
GAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAATAACATAAAT  
TTTAAACAGAGACCTGAAAAAAACCCCAAAAGTATTAACCTTTAAATACA  
TAAACTCAATAGAAATAATTTAACTGCCTTCTCTTCAAGAGGCAATCA  
GAAGGCAGGACTATAGTTTTCTGTGTTTCTTTCCACAGGAGAGATAATT  
ACATTTCTAGAGACCCATAGAAACAATTCATAGTTTTAATTTCTCTCT  
CTATCTCTAAGGGTGTGTCCAGGTATCTAACAGCAATTATCTTACATTGC  
TGAATCAACAACAATGATATCACTGAAGAAATACAGGGAGACCCAAGCTT  
CCTTGGATTGGCCCCCAAAATTTGGTGTAACATTTTAAAGGAATGGCT  
TAACTCTAAAGAAAGGGAATTTCTTTTGAAAAAT

>Sequence 134

TAGAGATTGAGCTCCCGCGGTGGCGGCCGCCCAAGTGTTGGGATTACAGG  
CATGAGCCACCACGACCGGCCCTGGGATTCTATTGGATGCAGCCAATTC  
TTTGTCAGATTGGCTCCATGCTGTTATTTAATCAGGTGTTTCTACTGT  
GTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAGTGAGGAATTGAG  
CTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGACTT  
GATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGA  
CAGTTGCTTCCCGGTACCT

>Sequence 135

GGAGAGAGGATGAGCTCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAG  
GGCCCTCCATTACAGGGTCTTCTGGAAAACCCCTGGAGGAAGCGCTCCT  
GTTGCAGTCGGAGTGAACACCCGTCTTGTTTAAACCACAGCGGGGATT  
CCTTCTGGAGAGTCCATGTAGTCATCATCTTTGACCTCTGCATTTTC  
CCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAAA  
CTCCACCAGATGTAAATCACTTTCTAAACAATA

>Sequence 136

GACGTTGAGCTCCCGCGGTGGCGGCCGAGGTACTTAAAGTATATCAGGG  
CAGTTTCATGCCAGGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGA  
GTAGAAGTTCACCAGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTG  
TAACAGGATGCAGACCCCGCGTCTGCCCC

>Sequence 137

TGTTTGAGATTGACACGGGCGGCGGCCGAGGTACTAAATTTAGCAACTT

247  
Table 2

TATTCATGAGGAACACCAGTCCAATGGTGGTGCTCTTGTCCTTCATGCTT  
ACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAGATTTTCT  
GAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTA  
CTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTTCT  
TGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTGAAAATGGAAATT  
CTGGGCAGGAAAGATTTTGAACCAACCCCTTTTAAAAATTTTAACTAGG  
GGAAACGGGAATTTTGGGGGGGGCCCCACCCGGGGGTGCTTTTGGGGGA  
AAAAATTTTTTTTGGACAAAAAATTTTGGTGGTTTTTCCCCC  
CCCTTTTTTTTTTAAAAAAACCCCTTTTTTAAAAATTTTTTTTTT  
TTTTGGCCCCCCCCGGGCCTCATTAATAAAAAAACAACCCGTCCTCGT  
TATTATATATTTTTTTTCCCCCCCCC

&gt;Sequence 138

GGTGAGTTGAGCTCACCGNGGTGGCGGCCGAGGTAAGGCTGAGA  
CAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTACACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAA  
AAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAGTTTGCAT  
ACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTAAAAATTAAGT  
GAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATA  
AATATTCACAAATTTGGAAAGTTATTAGAGGAAGAATTTTTTTCCTTG  
TAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTAAAAATTACATGGAG  
GAAAGAAAATAGGAAAATAAGTCACAGAAAAAGAAAATCAAAACAAATAG  
GAACCTTGGGGAACAAGTGAGGTAATTTCTGCTCT

&gt;Sequence 139

AGCCCAATTCCTTGATTTCTTTCCATCCCCAACTCTTTAACTCTTGACCT  
CTGCAATTCAGTTGTGAACATGAACTTGTCTATCACCAGCCTCTTCTC  
TGCAATTCCTTTCCCTCCTTGCTATGCTAAACTTGGATGGCCTCTGAAG  
ATACTGCTCTTACCCCTCTGAAGGGGGCTCCTCAAGGGAAGGTACCT

&gt;Sequence 140

GAAAGTAGGGATTGAGCTCACCGCGGTGGCGGCCGCTGTGAAACAATGCT  
CATAGCTCTTGAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGA  
AAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT

&gt;Sequence 141

TTTTGTGATAGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCT  
TTCCATCCCAAACTCTTTAACTCTTGACCTCTGCAATTCAGTTGTGAA  
CATGAAACTTGTCTATCACCAGCCCCTTCTCTGCATTCTTTCCCCCT  
TGTTATGCTAAACTTGGATGGCCTCTGAAGATACTGCTCTTACCCCTC  
TGAAGGGGGCTCCTCAGGGGAAGGTACCT

&gt;Sequence 142

CTGCCGGGCCCCATTTGATTTAAAGAAATGGGCCCCCCCCCGGGGAGGA  
GGGGGTTTTGTATTTGGGGGCTTTTCCCTTTTCAATTAAAAAAACCG  
GGGCCCCCGGTTTTGGGGGTGGGGGGGGGGTTTTTTTTTTCTTAAGGG  
GGGGTTTTTTTTTTCTCTATAAAGGGGGTGGGGCCAAAAAAT  
TTTTCTAAACCCCCCTT

&gt;Sequence 143

CCTTTTCCGTTTTTCTCTAAAAAGACCCTTGGGCTCGGGGATTGGGTG  
GGGGGGGGGGTTTTTTCTTTTAAAGGGGGGTTACCCGTTTTTCCCCC  
AAATAGGGGATCCCCGGAAAAAATTTTAAAAAAGCCCCA

&gt;Sequence 144

GTGTGGCGTTGAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCA  
TTTGAAGTGACAGGTATTAATAACGGCATATGAAAGCTTAAAGTCAT  
CAAATACAATCACTGGGTACTTTCGATTACCCAAACCAGGCACTTTCCTA  
AACTCCCCACTTCTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCCGG  
TACCTGCCCC

&gt;Sequence 145

GAACGATGGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACCGAGCTAC

Table 2

CAGGCTGTGGAATGAGACCGTGGAGCTTTTTCGTGCTAAGATGCCGTTAC  
GGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTTCACA

>Sequence 146

TGGACGACGGAATTGAGCTCCCCGCGGTGGCGGCCGTTCTGCTTAGCCAG  
TTTATTCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAAACGGTGT  
TTGCTTCTCTTTTCAAGATCTGCACAAAGTATAGCATTAGGTGGTAT  
TTATTGTTTATATTATGAGTTCTACATTCATCTTTCCAGCACTCTGAAGT  
TATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCT  
TTTTAATTCATTGTTTTTGACCCCTTTGAGAGTTTAAATAGAGAGGAGTC  
TGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGGAACCTAAGG  
ACTTGCACTGGTCCCCAAGTTAACAGTGGATATACTTCTGCAATTTCTC  
TGGTCTTTCTTGCAATTGGGCAAAATGAATGAACGGGACCAGAAGGCCCTC  
ACCCCTGTGGCATTTCCTCAAGTGGACAGGACTGGGACCCGGGATTGGTTA  
AATAACCCGAAAAACGG

>Sequence 147

TGAGGATGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACCCAAGGTG  
GGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGTGT  
TGTTTGAAAAATAAACAAAGAAATGCAAAACAAAACAAAACCATGGTCCA  
TTCAAGCTCAAGAGTATTTAACCAATGCTCTGTGCTCTTAAAGGATTG  
GTAGCTATTTCCCATCTACAAATACATGACAATTAAGTAAGCCGAAATTC  
TTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATTT  
AATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCCTAACT  
TTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGGACATAACCAC  
CATCCTTNTCTCCCAACACCNCGCGTACTCAAAGTAAAACCCGGAGCTTCA  
TGATAACCATGAGGCCCGCAGCTTCTGNCTCAAAGCTTTTCTGGCCTAAC  
TTCCGCTGCTTCTTCTCACTCGGCGTTTAACTGGT

>Sequence 148

GGAGGACTCAGGGTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAA  
AGCACCTGGTTCGGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAG  
AAAGAGGAGGCGCTGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAA  
TTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAG  
TGTCTGTTCTTGTGCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAAATCCC  
GAAGATGGCCAAAGACAACTGAACTGTTCTGTTGCTTCCAGGGCCTGCTGA  
TTCTTGAAAAATGTGATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAG  
TGCATCTTCATTGTATNTGACCAACACAGGCTCTACCCACTGCTTTGAAG  
CCACCGACAACGATGACATCTATGGGGCTGCTTGGATCGGATAATTGGTG  
GGCATCTGGCTCTTCTGCTGGCCGGTCTAGGAATTGTAGCATATGGAATT  
CCACAGGAAATCTCTGGCGAATTCATCTGAGGTTAT

>Sequence 149

TGCGTGTGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTG  
AGGAGCCCCCTTCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAA  
GTTTTAGCATAACAAGGAGGAAAGAGAATGCAGAGAAGAGGCTGGTGAT  
AGACAAGTTTCATGTTCACTCACTTGAATTGCAGAGGTCAAGAGTTTAAAG  
AGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

>Sequence 150

TTTGTGATTGAGCTACCGGGTGGCGGCCGCTGTGAAACAATGCTCATA  
GCTCTTGAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAA  
GCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT

>Sequence 151

TGAGCTAGTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT  
TTTTTTTTTTTTTGTTTTTTGTTTTTTCTGTCCCCTCTGAGCCATGGAA  
GATACTGGAGTTAAACAAAAATTTTATAAACTAAAGAAAGCAACTTTATAA  
TCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTTGAATTCTTATTCCTGAA  
AGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGC  
TCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGT  
TTTGTAAGGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACC

Table 2

ATTGGCATTACCCAAATTCTGTACACATTGAGCAATGAAATTCAGGAAT  
TGGACAATGACCTCTTGGCATATGAAAGAATTAAGAGAGGGCTAGGGCTT  
GGGCAAGGGATCTAATCGNGAGGGGATGTTGCTTCCGAGGCTCCCTTC  
CTTCTCTTTTCTGGCTTTCAGGTAAATGAAGAAA

>Sequence 152

GAGGGTCACCGGGGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGA  
AGAAAACATTGGACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAG  
CAGAAATTGCTTGGGAGTTTGTCTCACGACAGAAAGGCTTTATGGAAAC  
TGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCA  
CGGCAGAACCACAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGA  
CAGAGTGGCCCCCTCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGC  
CCG

>Sequence 153

CATGGCTCCCGCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGT  
CCTGTTGCCCTCGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGA  
TGGAGCTCCTCCTGCCTCCATCAGAAAGCACATATCATCTGTCCCTTTG  
GATTTTACTTCCAGGACGCGTGTCTGTCCTCCAGCGTGTGTTGCCTTATGGT  
GCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG  
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATC  
AGCATGAGACTAECTAAACACTGAAGATGGCCTTATATTAGTAAGATTG  
CACAAAATTAAGTATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTT  
TGGTCAGATGAAGAAGTAATGGGATCACATATATATGTAAGAAGACAACC  
ATCATTATTTTGTAAAGTGTTTTATTAACCAACTGGTTAACTTGTGAA  
ACACAAATAGAAGTCGTATTATTAAGGTCC

>Sequence 154

TTTGGCTTGAGCTCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCG  
GCTTTCAGCGCGCGTTTCAGGTGCTCAATGAGGTGCTCGGCATCTTCGAG  
ACCGATGGACAGGCGGATCGTGGCCTGGCTGATGCCTGCGCCCCGACGCG  
CTTCGTGCTCATGCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGG  
CTGCGGCAATCGCCACG

>Sequence 155

TATAGCGGACTCACCGGGTGGCGGCCGCGCCGCGCAGGTTTAAAAAGAACAT  
GTATAAACGCTTAGCAAACCCTTTTAAATGTTCTGAAGTCAGTCTTTGTA  
AGTGAAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCA  
ACCTACAAAAAATTAGCTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTG  
ATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGA  
ATTGAACCAGAACTGGAAAATTATTTGGGAAAGTTTATTAATACTACTCTT  
CTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTG  
TCTATACAATGCCCTGTACCT

>Sequence 156

TTCGAGAGCTCCCACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCT  
TGGCTTCCATAGCTTTCTTTTACAGAGGCCATGAAATGCAATCCAGC  
TGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCA  
AAGGATGGGAACCACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATT  
TCTGAATCATCATTATTAATTATGGAATCTCTGGTCGAAAAGTCACATT  
TGGTTTTCTCCTCAGTTTCTCACATCTTTTCTTGCAGCTCTTCTCAG  
CTCTTCTCTTGCCTTTTTTACTGTCTTCTCTTGTCTTACTTCAGGT  
GGTTCTATTTTGACCTTTAAAAGTTGAAGGGTGTCAACATCACCTGTT  
CAAAATAATTAATGTGTTAGTTTCTGTTGCCTTTGTTTAAACGCATTGAG  
GTTTTAAGTTGGATAAGTTGGGTTTTTGCACCTATTTCTGGGGCCAATG  
T

>Sequence 157

GTAGAGGGTCACCGGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCC  
CTCCTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCG  
CCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT

Table 2

## &gt;Sequence 158

TTTGCGGGCTCCCCCGGTGGCGGCCGACTCGCTGACCAGACCAGGCCCCC  
AGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACA  
GATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGCT  
AGTTGGTCGGATGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTAA  
CTCTATCAGGGTACCTTGC

## &gt;Sequence 699

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTCTAACAAATCTTTCCTG  
CCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTGTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGG  
CAGAGTCCATGTTGCCCAAACCTGGTCTGGAACACCACACCCAGCTAATT  
TTTGTGAATTGCGGTACCAGCACACCGGCGCCGCTCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAACTTGTGTTGGGACCCATGATGCC  
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

## &gt;Sequence 848

GGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTACAGTGCTGAAAAT  
CTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAAACTCTTCA  
ATCTAATTGTTTTCTCAATCTTTGTAAACCAGTTTAAAGAGTCACCAGAA  
ATCTGTAGTTTAAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGAC  
CAATATGCTGGACCAATTCCGTAAAAATACACCATAAATTATGACTGCTTT  
ATCTGAATGCATGGGACACTTGCTACGATGGCGGGAATTATTACCAGGAG  
TTTAGGAGCCAGACATGGGTCTGTATTTTTCATACATTGGTGATCAATT  
CAAACTCTCTTCTTTCAGCCAGGTTTGGTCAGTCTGGCCAGGAGTGC  
AGATTATGACAAAAAACAAAGCTAAAAGACCTGAGCCATTAAGGTTACAG  
TCTCAATACCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATT  
GGAATGATCCCGCTACCTGCCCCGGCGGCAAAGGG

## &gt;Sequence 849

GGTCGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAAT  
AAGGGACCAGAAATAGCCTGGAGCCAGGTATTTCTGGCTTTATACATTCT  
TAGGAAAAAAAACCTTTATAGATGTATTTAAGTAGAATTAAGGTTACAC  
AAATGATTTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTAC  
GGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGTCTGCAGAA  
GTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCCAGCATT  
TTGGGAGGCTGAGGTAGAAAGATTACTTGAGCCCAGGAGTGTGAGACCAG  
CCTGGACAAAAATAACAAGACATCATCTCTCAAAAAATAAAAAAATTAGC  
GAGGT

## &gt;Sequence 850

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAATTTTACTACTACANAGTGCTT  
ACGTTCTTGGTTTGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAAC  
ATTAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCA  
TAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTTC  
AAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAAATGTCAGAATATT  
AATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAA  
TATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAAGGCTTGCTTTGAGGAGACAATA  
GAGGAAGAAATTAAGAGGT

## &gt;Sequence 851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAATC  
ATCTTAAATTAACGAATTAAGTAAGCATGCAATACAGACACTTGCAGG

Table 2

ATGCCTGGCCTCTGGGAACTGCTCCTGTCTCTGTGTGAATGTAGAAGTGA  
GGCTCAAACCTCTCTCTTAGGAAAATTTTCCCTTCCCACTGCCCATCCATT  
TCTGCTGACTCAACAATTCCACAGAGGAAAATGGGAATAGTATCATCAAC  
TAGCAGTCCTCCCATGCCAACAGATTTGGGGTCTTATCTAAGTGTCT  
GCAGCCGGTCTTCCCTTCCCTGACTTCCCGTATTGGCTCGTTAAAATGATT  
AGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAGTTAATCT  
TCTAACTGTGTTTTGTGAAAGGAAATATTCCTAAAAGCTTTGGTGTAC  
TTAAAAAAAACAACATATATGATTGAAAGAAATTTGAGATATTTTGT  
TTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAAATTCAATAAGCAT  
TTATCAAGTGCTTAGGATATGCTGCAATGTATGTACCTCGGGCGCGACCA  
CGCTAAGGG

>Sequence 852

GGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCT  
TGCTTCAATGTCCCTCCCTCTGCCTGCCTCAACCTACACAGTCCTGTCT  
GGTGACGTGCCAAAGTCCTTCTGCCTTGACAGAGGGCTCTCTTCGTCTG  
AACATGGGCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTG  
GAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTTGATGCT  
TGTTTGTGGTGTGGGAGGCAGGAACTACTTTAGGAGGGTGGAGGGGTGA  
GAATGAGAGAGGACTTGCCCTGAGCCACCCAGCTGTGGTCACTGATGGC  
CCGGATGGCTACATAAAATCCTGGGAGATCCGTTGTCCTCATAACCAGAGT  
GAGCTGGGCTCCAGACCAGCCCTATGGGAAGATCCTGTCTGTGGGAAGCC  
TTTGCCACGTGTTTGTCTGAAAGGTGTGGGAAAGGCAAGGTCAACTACG  
TTTCTTTTTTGTCAAACCTCCGAGACCCTTGACCTTTGCCTGTTACCACTG  
GAAAGGGGCCATAGCCAGAACCCTTTAATATCACCTGGCTTCTCTGCTT  
TCCAAAAGACTGTAAATTAATAGTGTGCTGAGGAAGGCCAAATGACGGGGG  
TGGTTTGACCTTGCCCTGCTTCTGGCTTGGGGAAGAATAATGGCAGGGA  
CCCTTTTAGGGTTGCAATGGCTCGCTGGAGGGGCACCCACCCGTTGG

>Sequence 853

CCCTTAGCGTGGTCGGGCGGAGGTACGCACATACATACACTAACGCTC  
AGCATAAACTTTCCATTACACTTAGACAATGACTTGTGGAGGAAAAACAA  
GGATAAACAAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTGATTATT  
TAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAA  
TTGTTCTCTATTTCCCATTAGTCATTAATGAGATAAATGACAAGCTATT  
GCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCACTGT  
GTTCTCTAACAGTTCTAAAAACAGTTTGAT

>Sequence 854

GGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCA  
GATTTCTAGGTTTCAGATCCAAGCATCACTACTTATTTTCTTTAAGAACT  
TGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTTGTGTGAA  
GATTCACAAGGTAATACATATAAACGTACAGATCAGTAGACCAGCCAA  
GAGTTAAAGGCCTCCGGTTGATCATTGAGAGGGCGGCAACGCATTACAAA  
GTGGTGGATAAGGGACCCCGTTGGAGAGGTCTTAAACCTGTTTAACAGG  
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>Sequence 855

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TAGAGACAGGGTTTACCATGTTGGCCAGGCTAGTCTCAAACCTCTGACC  
TCAAGTGATCCACCTGCCTTGGCCTTCAAAGTGCTGGGATTATAGGTAT  
GAGCCACCGCACCCAGCCTTCAATTTTTTTTAAATTTCTGATAGAGCACCA.  
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GATCATGTTAATGAAAGATTATTGAAAGGT

>Sequence 856

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GTTACGCTTTACATAAGAGGCCCTATTACCCACTAATTTCTTAAATTTCT  
ACCTACTTAAAAATTTCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACA

252  
Table 2

TAAGATATGCTTACTTAAATCCTTGCTGGTTCATGCCTGGCCATACATG  
>Sequence 857  
CCCTTGAGCGGCCCGCCGGGCAGGTACCATGAAATAGGACCTTCTACGGT  
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AACAATGTTTGGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCCTT  
AAATGTAGCCTGGAGGATTCCTATCTATTCCATATACTAAAAGTAAACG  
TTTATTTAGGAAAGGGACTCAGGAG  
>Sequence 858  
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AAACATGGACTTGTTACAACATCCCAGAGTGAAATCTGAATGTGGTCAAG  
AAAGTTCAGAAACAATAAGAGTGATGCAATGCATACCACAACTCAGGCCC  
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AATATTCT  
>Sequence 859  
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CCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGA  
AATGCGTCTTTCCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTT  
GGCTACAGAATTGACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTG  
GGTAATATCCTTATCTTGTGATCTAGTTAGGGTCAAGTAAACGAAATA  
>Sequence 860  
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AAATATTTAGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGG  
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TAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCA  
TTTT  
>Sequence 861  
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TCTATTTTCTATATCAGAAATGAGCAGGCATTTAAAAAATGGCTTTCAT  
TGATGGAGAGGTAAAAGTGAAATGGCTTTGTTGATTTATATTATAAAAG  
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GCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTT  
CGGTTCTGGTTTCTGTGGT  
>Sequence 863  
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TCCAAACCCAGTTGCAGGAATTTATGTCCTTAAAGTAAACCATCGTATGAT  
AATTTCCCTGAAAATGTGCCTATTAATAAAAAAATAGGATATGATGGGAG  
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>Sequence 864  
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Table 2

TTTTGTTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTTGC  
CCTCAATTACTATTTTAAAAGTCCTATAATTTTAAAGTAATINTACAGCTGA  
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GTGGAAATGGCCTGTTTTGACACATAATTTCTAGAACTTGGAGTTAATTT  
GATCAGTTACATTTGGGTTTTTTTAGATTACAGTTCTTGGGGTAGATAA  
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>Sequence 865

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AGAGACAGTTTCAGTTAATATACTAAGTGCTAAGATTGGGATGTGCACAA  
GAAGCTGGAGGTAAAAATCTGGAAAACTGAACGTGAAGTCACCACTAGG  
CAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCT  
TGTTGAAGGATTAGTTATCTAGTTTCCTCCTTTTCTTTTTTGAATTTGG  
TCTTTTAAGGCTTGATAATCTTTCTAGTTTAGAGCATGTGAACAGAACAA  
GAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAGCAAGCATTGGTTGCT  
GCAGATTAGGGGAGGTAAAGTTGCTGGGCTCCACTCTTTATTAGCATG  
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>Sequence 866

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ATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAGGAGAAAGAATT  
TTTTGAGGTAAATTTGAAAAGACATAAAATAGACTACCCTGACAAAAATC  
TTCACAGATTAAAAATACTAATATTTGCATTGTCATGTATATTACAAACA  
GTATTTCTTGCTTTTTGCTTTTTGTATTGTGTTAAGTGTTTCTTGCTAT  
ATTAAATATAACTTCTTTATGCAGCCTAGACTTATTTGTATGTATTCCC  
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CTGCTCGGGTGGATTGTTTGAAGGGCGAAATTCAGCACATTGGCGGAC  
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CACAAGAAATAATGAGTCAGGGAATCATATAAGTGATAATGTCTGGCTAT  
GCTTTAAGAAGTAGGCCAACTCATATATTAATATGGGACAGATGAATAT  
AAGACCTATTTTCTAATATCATGATATATATTACTTTAGTACAATTATTT  
ATATATGTAATTAGACAACCTTTCGTGTGTGAGAGAGTTTGTTCCTCGTA  
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>Sequence 867

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TGACCAGCTATCATCTTACCTCATAGTTTTTTTCTCTGGTAGAGATAATT  
AACTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAAATAT  
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GTCTTTTCTTCTTAATATTGCATTTTGAGCATTTAACCAGAACACTAAA  
TATCTCCCTAGAACATATGGATTTTGAATAATTTAACTAATTATAAAAA  
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TCAGGGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCAT  
ACTGGCATACTGCTTTTAAAAAATAATTAAGCTGAGTGCGATGGCTCACG  
CCTGTAATCCCAGCACTCTGGGAGGCCAAGTCAGGTGGGTCATTTGAGGC  
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CCACTCTAAGGGG

>Sequence 868

Table 2

CCTTTCAGCGGTCTTTTGGCAGGTACTTCCTTCTTTTTTGGTAATTTTGC  
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ATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGA  
ATGAAGAATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGG  
TTTATTGATTGGAGATCCTTTATCTGGATTATATAGGGAACACTTTGCTT  
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CGAGACCACGCTATAGG

>Sequence 869

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CAAAAATTAGCCACAAGATGAAATTCAGTTAAAAATCCAAACACTGTGGA  
GATGGAAAAGCCTTGTAATTTTAGATGAAAGGATTTATGGCTGGAATTAAAA  
GAAATTTAAAGGCAGAAAAAGTGGGTGAATGGAAAACATTTACTTTTTGTT  
TTTAAAGTGTTAATAGCCACTTTTTGTCCAGTCTGTATCTCCTTTCATTAG  
TCTTTATATATATATATACACACACACACACGATGTTATATATACAT  
ATAATGGTTTATGTATTATATATGTTATATATACACTTATATGTTATATA  
TATGGGTTTTTTTTCAGGAGCATTATATCATGGGAATGAGTTCAAAAGTAC  
CCGGCCCGGCGCTCGTTCGAAAAGGCCAATTTCCACACACTGGCGGGCGG  
TACTAGGTGATCCGACCTCGGACCCAACCTTGGGGGAATCATGGGCATAAC  
TTGTTTCTGGGGGAAATGGTTTTCCGTTTACAATTTCCACACACTATAC  
AACCCGGAAGCCTTAAAGTGGTAAAGAGCCGGGGGGGGGCCCCAAAATG  
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CCGGCCTCTTAAAAATTTGTGGGCCCCCGTTTTTTTTTTTTTCTCAAC  
AAAGAGTTG

>Sequence 870

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ATACGAGCTACATAAATCCAACTTGTTCAAAGGTAGCTATGTTTTTTT  
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CCTGATAATTGGTAATACCAAATAACTGGTATCTAATAAATATACAAATC  
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TACTTAACAACCAAGTGCAACTNTGTAACCAAAGTGTTCTTAGCTCCCG  
CGTACC

>Sequence 871

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GACACAATAAATCTCTTTGATATTTATACTTATGCCTACTTTTAACTTT  
TAGGAAAACTTTATGAATTGGAATATTCTAAAATCCTGAAATAATTTGGA  
ATATTCTAAAATTTCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCT  
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TTGGGCCCTTTGTCCCCCGGGGGCCCCGGGGCTCCCCGTTTTTTTTTT  
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>Sequence 872

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TACAGGAACAGAAACATGATGGAAGAACAAGGGTAGTTACTGCAACGAA  
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Table 2

CATGAATGAAAACAAATGGGAAAACAACAACAACAAAAACAAAACAAAA  
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TGTAAC

>Sequence 873

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CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCCTGAACTGGGCCGAGCTCAATCACTTTCCCAGACCCTGCCAC  
CTCGCTGGAGCTCAGTGGGCCCATGGTGGGCAAAGGAACCCAGGTGGGC  
CACAAAACCTATGCATTTATAAGTAGATGGGGGCTGAATTACAACACAC  
AAGCACTTAAGGGACTTTCTGAATATCTGGACTCATAGGATGGCGAGCAC  
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AGACCCTGGGTTCGGGATGGTCTGAGTAATGGCAACTCTTATTTGATA  
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GTGATATGAGACTAATTCTATTACTGGGCCTCTCCAAACATTTCAAAAAG  
AAACAAGGGTCAAACCTTGCATACCTCCCTTTCATATGTGACCGGTAATA  
GGGCTTATAAGGAGGGCATGCCATTTACTGAGTATTCGACGTCTTAACGG  
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>Sequence 874

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CCTAAAGACTGTAAATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAG  
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>Sequence 875

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TGCTTGTTCTAACATGGACCACTCTAGCACTGTAATGGGATAACCCATTA  
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>Sequence 876

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CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
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AGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATCACA  
GCAAGAGGGCAGATGAAGCAGACTTAGAGAAACAGATGAGACACAGAGAG  
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Table 2

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>Sequence 877

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CACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCAGACCACTGTGCC  
TTACTTCTATTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAG  
AGAAATTAAGTAGTAACCTGTCCAAGTTTACCCACAACCACTAAGTGGTA  
AAGCTGGGGTTTGAACCTCAGCAATGTGCTTAAATCTCAGTAACTGAAAA  
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ATGT

>Sequence 878

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ATCTAGTCATCTGTAGCACTTCTCACAATAAAGCTCTCTTATGCCCCAA  
ACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATT  
TCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTAG  
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GAAAAACATTAGTTAGATGAAAAANANAAAAAANANGGTACC

>Sequence 879

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GGAAAGAGGAGGTAGAAAACAAGTGCCACAGTAGAAACACTTTGATAGCT  
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ATCAGTTTTCCAACCTCTTATTCTTACTAGACTGCGAAAAAATATTCTTC  
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>Sequence 880

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CAGAGTAAACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
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TCCAACCTTATTTCATACATTTTGTGATTATCTAAGAGAAACCAAGCCCC  
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TGTATTTCACTACCTATTAATGGGTACCTGCCCCGGCCCGCTTCAA  
AGGG

>Sequence 881

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CAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAAT  
TTAAACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTTCTG  
CTTGTGTTTCAATCTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACAC  
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Table 2

TTTTTGCCTTATCTCCTGAAAAGTGTGGGGGACTTTGAATGGGTGTGTAA  
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GTGGCCACGCCTGTAATCCTAGCACTTTGGGAGGTGGAGGCGGGCCGAA  
CACAAGGTCAAGAGAACGAGAACCATCTTGCCACACGGGTGAAACCCTAT  
CTTTGCTTGTGAAGGAAGAAGATGATACATGATGAAGGGTCCCTTGGCCG  
GGACCACGCTAAGGGGGGATTCCGGACCATGGCCGGCGTTTCAAGGGGAA  
CCAGCCTCGG

>Sequence 882

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CAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCAT  
TATCTTACCCCATCTTTTTGGGCAGGGGTGGTAGAATTTAAATTTTAC  
CATTACTAAGACAGGGTGATAGTAAGCATAGAATTTTGGGATGTCTTTTT  
TTTCCTTGCCCTAAACCTTCAGAGTTCTGCCAGGTGATTCAAATGTTAAG  
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TCTTCAATTTAGAAAAGAACAAAGTGAGATATCAAGGCCATTGCGGCCCT  
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>Sequence 883

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CCCTCTTCACATTTATTTGATTCAAACCTTTTTTAAAAAACTTAGATTCT  
TTTTAAAAAATAAATTAAGAAAAATGACATCATTCATCAGATAGCCAGC  
TACATGTGTAGTTTGATCATTCAGTTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACC

>Sequence 884

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GCAGAGGGATGGAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTC  
TTATGGGATATGAACTTGAGATGTTGAAGTAGAACTGAGACATTTCTGGA  
AAACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGAAAAA  
CAGCAAGCAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAA  
CAGTCAGTGATAACACTAAAAAAATCAAAAAATTTTAAAAAGTCTGGAATCA  
CAGCATAAAGAACCCGTATGCAGGATTTTTATCTCGCAGCCCTGTCTCCC  
TCAGGAGACAGAGATCCAGAATCACTTCCAGAATGGTTTAGGGTCACCT  
TCCAGATTCTTTGTTACCAACCCTTGACCACACCATTTTAAGATTTCAA  
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>Sequence 885

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CATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTAAAT  
TGGTTTGTCTTACTTCAAAGTCCCACTCATCAGAGGCAGGGTTTCGCTTAT  
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TAACATTAAAATGAAACCAGTTTTGCAGCTAGCATCTATTGACAAATATA  
ATTATTTATTTCAAACGTATATTCCAAATTTAAACATATTCAATGCTTA  
TTGAACATTCTAACATAATAGCTTATGATAAAGGAAAATATAACATCTGG  
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TTCCAATTCAAGGTGAATCTCCGAGGGTGTGGTGGCCTTCCCATTAACAG  
CAAAAACCTGTCCAATTTGGGATTGGTAGAAATAAACCGGATGACCATT  
CCTTCTTTTTATCCCCAAATTGGATTTTATGCCTACCTAATGGCTTCTT  
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GGGAACTTTAATATTAGATTAGGGGGCTTGATTTTGACTTCCTTTAACA  
CCGAATGCGAT

Table 2

## &gt;Sequence 886

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## &gt;Sequence 887

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ACCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATNGTCT  
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TTATAGGTCATTAGTTAATTAGTTGAATCATTGCTTCTCTTTTTCTATT  
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## &gt;Sequence 888

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TGATT

## &gt;Sequence 889

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AATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTA  
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GACTGAAGGAGTTAGCCTTTAAAAAATGAAGAAAGTTCTATTTGGCCAG  
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Table 2

CAAGATCAGATTTGCAATGCCTTTCAAGAGGTAGTTACAAGGAGTTGGGT  
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>Sequence 890

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ATCTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCA  
CCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGA  
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ATTGATTCCGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCG  
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CAACTTGCTGGGAGAGCAGCAGTAGACAGCTAATAGGGGAGCCCCAGACA  
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>Sequence 891

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>Sequence 892

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CAAGATGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTC  
TTCCAACATCAGGGAACATCAGGGAATCAGCTAGTATATGCTCTTTTGG  
AGGATTTTCAGCTCCAAATCCTGAAAGCATTGAAACTACATAAAATTA  
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CACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTTN  
TAAGTGATACATGTTTAAAATTGTATATTTAGAAAAAATTGTTTTTATTA  
TATATAATTTATAAATCAGTGGAGAGACAATTTATACTGAGAAAAATTTT  
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TGAAGGGAGGAG

>Sequence 893

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CGTTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGAT  
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Table 2

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AATCTGGCAGCCATCCATGGACAAAAGTGCCTCTGTGGGAGCTCTAGGAT  
CCAGGTAAGAAGGTATGAAACCCTGGTAAAGCCCAAGACGGAGGAGAGGT  
ACCTCGGCCGCGACACGCTAGGGGC

>Sequence 894

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TCCAGGGATACGTCCATCCCCGTCTGTGGAGCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGACACCATGACGAGAGCTT  
GGCAGAATAAATAAATCTTTTAAACAATTTACGGCATGAAGAAATCTGG  
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ATCT

>Sequence 895

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TCCAGGGATACGTCCATCCCCGTCTGTGGAGCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGAGACCATGACGAGAGCTT  
GGCAGAATAAATAAATCTTTTAAACAATTTACGGCATGAAGAAATCTGG  
ACCAAGTTTATTAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC  
ATCT

>Sequence 896

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GCCATTCTGTGCTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCT  
TAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTTCCCTGTTGAACAT  
CTGACCCCGACTCTTGAGGACATGAAACCTAACTGTGCAGCTAATTACA  
CCTTCCAAGGGCAATGACATCGGGTCTATGATTTTATTCAGGAAAGCAA  
TAAGGCAATCGGGTCACTGTGAACATCATTGAAGGGAAGTAACTTCTT  
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>Sequence 897

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>Sequence 898

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AAAAAAATTACGGGTACGTCCCTTTCCAAGGTGGAAAAAGCCGGACTTT  
TTTTTTTTTTTTTCCACAAAAAGAACCTTTTTTTTTTTTAAAGGGGGG  
GAAAAAAGAAGTATAAAGGAAAAATTTTGGGGGGATTCTTCCGGGCCCCG  
C

>Sequence 899

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GTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGG  
TTCAGAGTTGAAAGTGAAATAAAGGATAATAATCTTGTCTTATTTCTT  
TGTTTTAATGTTTCCCAACTTACGTTAGGACAATGTCAACAAAGACAGAT  
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>Sequence 900

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Table 2

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TTGTGGTAGGAGGAAGGCACAAAAAGTAGACTGGGATTACAGGCGTGTGC  
CACCGCGCCCGGCCTAAAGTGTGTTTATAATAAAACCTCAATCTGAAAC  
ATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGGATTTAT  
GTTTATATGAATAAAAAAGAAAAAGACGAGG

>Sequence 901

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GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTT  
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>Sequence 902

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TATTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTT  
TAAGAAACAGGATAAACTNTAGCATATAAACAGTCTGATTACATTTTCAC  
ACTTTCAACCATCTTATTTATACTCTACATTAGATAATCTTTAAATTCCA  
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>Sequence 903

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AGCTGAATAAACTCATCCACTCCGATTTTCAATTCAGGTATCTCATGAGAA  
ACTAGAGGACAAAAACAATTCCAAAATTAACAAAACAAAGTTTACTCTAG  
CCATCAGTGCCAATGAACATAAATGACTGCCTGAGAGTTATATTAACAAA  
ATAATTAATTCAAGACGAATTAAGGAATTAACCAGCTATGGGAAATATAC  
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>Sequence 904

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TAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAT  
TGTAATTCAGAAATGGCTTTTATGTATCTAAACAATCTGGGCTGCTATAA  
AAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAGTC  
TAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCT

>Sequence 905

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TTGTAATTCAAATTGGCTTTTATGGTATCTAAACAATCTGGGCTGCTAT  
AAAAATTCAGTCAACTTCTAAACTTCCAAACACAAAATAGTTATACTCAG  
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>Sequence 906

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GGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCAATTGAAATAAGTGGTTCCA  
AAAGCAAAC TAGGTCAACTTTTAACTGGCTAGTGAAAATGAGATTCTC  
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AGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACA  
TGACAGTGTT

>Sequence 907

GGTACAAATTGCATTGTCAATTTATTTGTTTCCCCACTAAAGCCTCCA  
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TGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCT

Table 2

TCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTG  
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ACTGTTAAG

>Sequence 908

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GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTT  
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CTGTCTGTAGGCCCTTAATGATGTTTTATTGAATTTTGGTT

>Sequence 909

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GT

>Sequence 910

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AAGTCATTCACACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTG  
CTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGTTTGTGTCTTTTTCTT  
TAAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATAT  
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>Sequence 911

GGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAAAAAGGTGTATAT  
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CTACCAGCTTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTT  
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TTT

>Sequence 912

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TGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTCT  
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>Sequence 913

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ATACGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTTCATTTCA  
CAGCAGGGCTCTGTAATTAGGCAATAATTAAGTACCATCATACCTAGTGA  
GGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTA  
CT

>Sequence 914

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CCAATTTCTATAAATGTATCAGTAAAAAAAACAATTATCTAAAGTTTTT  
TAAAGTAAAGAAAAATTTATTCACATAGGTAACCTGGTGTCAACTAGG  
TAACTGATCTATTTTAATTTAGGAAGTTAGTGCTTCTCCTTCTCAATTTT

Table 2

CAGATTTTCTGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCTCTACAAGGA  
GAAAGCAAGCCAGAGAATCTGA

>Sequence 915

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ATTGTGGGTTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAAT  
TGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTGATATTATATAT  
GAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACA  
TATTGTAAACCTACAATAATCATTACAAAATAAAGAGATATAACAGTAA  
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>Sequence 916

GGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCCTTTGGTCTA  
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CCTTAAGCGACCCAGGGTAGCTTGTGATGGTTCAGATTATGATTTGTCT  
AGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGTCCCTT  
CCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCTGGTA  
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>Sequence 917

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TCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATC  
AACGATGACTGGCCGTGGGTGAGGCTGTTTGTATCACATCACTTGAGAA  
CAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAG  
ACATCTGTTTCAGAAAGCTTCTAAGCCATGGAGTATTCTAAATGAGCA

>Sequence 918

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ATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATAC  
TGAAACAGTGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTG  
GGAACAGCTTTCAGCAGTGGTCACTTGTCTTTTTTTAATGCATTTCAAAA  
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>Sequence 919

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GTTGGAAGAGGAGGAAAAAGAGGGTGAGATGATACATTAATATAAATTA  
GAAAGGTGGTGTTCACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGG  
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GCTGCCATTTCCCTGTAATATATCGTGTGTAGAGGAACCTAATGCCTGCA  
G

>Sequence 920

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TCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAATTCCA  
TGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACC  
ACAAATCCACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCA  
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GTATCACTATTTTACAAGGAAAAAATTAATCATTTTAACAGATTGGC

>Sequence 921

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ATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATGAC  
CACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCTCA  
ACATTTGTGTGCTCATCTCCCTTCACCCAGAGACTCCCCAGGGCTGCTG  
GGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGGAAA  
TTTCCAAAAGGTGTTAATAGACACATAAAGATTTTTTAAATATTAAAAAAA  
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>Sequence 922

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264  
Table 2

ATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCCATTCAAACA  
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CAACTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAA  
TGCAGGGCAGGACTAGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCA  
GGAGAAATGTGACTGAGGACAGTATGCCACTGAAAAGTATGAAAGAGGA  
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>Sequence 923

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GGGACAGCTCAACATGGGCCTGGACAGTCAAATTCATCCCCAAGCTTGG  
GACTCAGGGAGACCATCCAGTGACTGTTCTGAAGTGCTGGGAAGGCAGA  
GCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTGGAGCTACT  
GNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAG  
CA

>Sequence 924

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CGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGAT  
CTCTTTAAGGCTAAGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACC  
AATTGGCAGGCCCCATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACG  
ACACATTTTTCATCATTAATCCAGCCTATTGTAACCAGGGCCACTCACAT  
TGATT

>Sequence 925

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GTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAG  
AAAAAGACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTTCAGACAA  
CTGGTAATAGTAATCACTATCATCATCATGTGACATCCAGAAAGCCACAA  
ACAGAGCGGTCTTACCAGTGACTTGTCATTGGTTCCAATTCCTAGCT

>Sequence 926

GGTACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATA  
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AGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCAC  
TTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTT  
TGGGGCTGTTACAGTTATTTCTTTTATTGAAGAAGGAATATGATATACC  
TACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

>Sequence 927

GGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCC  
CCAGAACTGTACTCTTACACGGCTGGAGCACTCCCAAGCTGTGAATGTC  
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TGGGGCACTTTCAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTC  
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AAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTTCAGGTCACCCAA  
TTTCGAAT

>Sequence 928

GGTACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTT  
CACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAG  
CCACATTGCAAAACAAACAAAAAAGCGAGAACGTTCCCGAGTGTGCCT  
CCAAAACATAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGG  
AACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA  
GGGCATGGCCTGAGAGAAGCCCCTTCTGCTTTCAGAGCCTACAAGTAGT  
CCCCAG

>Sequence 929

GGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTT  
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TCTGTGTGAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAAAT

Table 2

AAGAATAAGAGGACATTTTTAAAGGAATTAAAGGAACATTAATTCCTTCA  
TAAATGTATAGTGCTTAAGCTCTGCTTTAAAAGGTCTTTCCATGTGCTCT  
TGGGTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTG  
CAATCACAAT

>Sequence 930

GGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGC  
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ACTGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCGAGCA  
GGGATAGTGGCTTGGGCCCTTCGTCTGGCTTTTCTCCCCAAGTTGCTTC  
CTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAATGGTTAAGCC  
AGAAGGGAGGGCAGAAAACAATGGCCCCACATCCTGGCTCTGCCTCTGAC  
AAGCTGAGT

>Sequence 931

ACGCGGGATTTAGAGACAGGGTCTGGCTCTTTTGGCCAGGCTGGAGTGCA  
GTGGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCTCAAGAGAT  
CCTCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCA  
CGCTGGCTAATTTAAAAATTTTTTTATAGAGACAAGGTCTCACTATGT  
TGCCCACTGGTAAAGTATTTTAAATTCGAGACATGAATAATGATGCA  
ATCATCCTTTCTATGGGTCTGATTCTGTTCTGCTACCTTATTCAAGGAC  
TAAA

>Sequence 932

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATTTTTAGTAGACA  
CGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCTGA  
TCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGT  
ATCTGGCCAGAGAAATTTTTAATATAAATTTTTTCAGTTACCACTTAAA  
GGGAAATATGATTAAAAAACTAAATAAAGAAGAGCTTTAGTAAAACCAT  
GCCCTCTTGCTAATCTATTAAGAGTCAAATCTGAAC

>Sequence 933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAAC  
ACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGG  
GAGGGACAGAAGGAAATAGGATGGAAAGGGGTTGAGGGACTTCAACTGTA  
TTTGTGATGTTTTAGTTCTTTAAAAACAAAAATCTAAATGACATTTGAAAT  
ATGAAACAAACGCAGAAAACATCAAATGTCAACAATACTTAAACCTGAG  
TGTGGGTGCCTGAATGTTATATTGGTCTCTGCAN

>Sequence 934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTGTTGGATATAGGGAGTGGAT  
AGCTATTATTAATTGCAGATTATTTTGGAAAGGAAAAACACACAGAGAATT  
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AAAGCTGCAGTTATAGAACACAATTCTGATTTCTGCCTCACCCACCGT  
TAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAAT  
AGCTGTTATTTTTAATAGCTATACTAAAAACATAAAAAATGTTTAGGCCAGG  
CGTG

>Sequence 935

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ATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTT  
TCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATA  
TGCTATTTGGTTTACCACTGTATCCTCAACAACCTGCTGGTTGTCCCTAT  
TGTAGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTA

>Sequence 936

GGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGA  
AACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACA  
GGAGTTGTGGGAACATATAGACAGTGACCAAACTTTAATGAATACAGG  
AAGATTTTCTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTT  
ACCAGGTTCAGAACTTAAGTGATAATAATCTTTTTATCATAAAATTTTAA  
GTGTGGTAGAGAATAAAAGTTTTGAATTAAATGTTGAATGAAATGTGTTA

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Table 2

TG

&gt;Sequence 937

ACACTAAAAATAGAATATAAGGCAGTGAAATCAAATCCTGGCTCACTTGA  
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GATAAGTTTCTGTAACGGGGCCACTGACCATTTCATTCCCAAGGAACATA  
AATTACCTTTTAGCCTGTGTATTTACACACAAATATGCAACCTGCAAACCT  
TCTTCTGAGGACAGATGTCAACTACTTTTTCATTTTTTTTTTTACAGTCA  
AAG

&gt;Sequence 938

GGTACCAAGTATACTTCACCAGATATCTATAGAACATTCCACTCAGCAAC  
AGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACATT  
TCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAAATTTAA  
AAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAAATGGAATGAAAT  
TAGAAATCAATAACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAA  
TTAAAAAACACACTCCTTAAACAACCAGTGGGTCAGAAAAGAAATCACAA  
GGGN

&gt;Sequence 939

CCCTTAGCAGCGGGCCGGGCGACGGGCTCTTCTTCCATACTCTTTTAATT  
GGATATGCCAGTGTGTCTCAGTAATTTCCAGTGGCTGTAAAACTTTGAGA  
AATTTTGTAGCTTTTAGAAACCACATACCTGTATTGCCTGATTGCTTATT  
AAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGC  
AGTTTTTTTCCATGAAAATTTCACTGGTGACAAATTATAGAATTTATCAT  
TCAATTCAGTCTTAACTAGAAAATAATTGCATATAATAAAACAGGTTCTTG  
ACTGTTCTTTTT

&gt;Sequence 940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGAGAAGCAAAGAAATGTGC  
CCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTC  
GAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAG  
AGAAGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAACT  
ATGAAAAAGCAAAAGATTTTTGTGTTTCGTGGTTTTTTTACTATAAAGGAA  
AACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;Sequence 941

GGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAATT  
TGATATCAAAGGAAGTATCAAAACCCTTGATGTGGTTAAGAGCATGGATA  
GTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGC  
AAAGAACTGGAATGTAGAGGATGAACATATTGGTAATAATAACTGGT  
GGAATTGTTATTCAGGAAAAAATAGCAATTATTCCTGTTTCATATCTCAA  
TCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATA  
TAAAAAT

&gt;Sequence 942

GGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTGTATAGTTATTTGTTTTTATTTTAAAAAT  
TTATTTTGCCAAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTA  
TTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATT  
TGCCGCTGCTGTGAAATGTCTTAAATTTTTTGGCCATTTTCTAGTGAT  
AAAACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;Sequence 943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGT  
CAATTTAATCCAGTCGGCTTATGATTTTTCAGTTCTATATTCTTACTGATT  
AATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCC  
TAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCAT  
AAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTTC  
TTGGTGAACCTAGACCTTTTATCATTAGGAAACT

&gt;Sequence 944

GGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAATAGGAAAATGTTT

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Table 2

CATTCACTATGGTGACAAAACCTGTAAAAATAGGAATATATTTCTGAGGAAA  
GTATAGGTATTTACAAATAGATAAACTATATTTCTTAGATGAGAATACTTA  
ATACCCACTTTACAAAATTAATAATGAATTACAGCTTTTTAAAAATAGAT  
TAAGCTGGGTGTGATGACATGGCACCTATAGTCACAGCTACTCAGAAGGC  
TGAGGCAGGAGAAGCACCTGAGCCCAGGAGTTTGAGGCTCTAGTGAGCTA  
TG

>Sequence 945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAA  
TCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATG  
AATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCT  
TGCCTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTG  
GCAGTGGCCAGGGCAAGGTGTGAGAGCCCTAGTGGCAGGGAGATGGCAT  
CCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGC  
AGGG

>Sequence 946

ACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGAAGCATTTGT  
GAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTAT  
TGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAA  
GAAGCATTTCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATATGC  
TTATGGGGAAAAATTGGAAAAATAGAAACCAAGTATCTAGAAGAAAAATCAC  
TCATAATTCCAGCACCTGTAACTTTGTCTTTTCTTACAGTTTCTAA  
TA

>Sequence 947

GGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAG  
AAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTG  
AGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGCCTTC  
AGTTTCAATTTTAAAAAAGTGTATGTAGAAGAGGGAGTGAAG  
GTTTGTTAGAGGTAAAGAGGGTGAGATTTGATGGTATTTTTTTAGTTAGG  
ATGAGATAGTAGAGGTAGAGGTTATAGGGAATGTAGGTTGTAGTTTTTTA  
TTTN

>Sequence 948

GCGCCTTTCAGCGGCCCGGGCAGGTAAGTATTTAATGAATATTTTA  
TAAATTGCTGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAA  
TGCTATTGCCAGGCTGACTTTTATTGCAACTGTTTTATGATACAGTTTT  
GCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGGTTTCTTT  
TTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAAATAGA  
AACAAGTATCTAGAAGAAAAATCACTCATAATTCCAGCACCTGTTAATA  
CTTTGTCTTTTCTTACAGTT

>Sequence 949

ACCAAGAACTAAATTTGTGATACGATAGGTGACTTATGAGTAGCACAGAAT  
GTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGT  
AGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCA  
AACTGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACCTT  
CTGAAAGTCATTTTTTCTTATTCCACTTTGTGCCTTTTTTTAAAAGCTGC  
AGCTTCATGGAATTTAATCCTGGTATTTAAAACACTT

>Sequence 950

ACTTGGTAGGTTGATCTCTTTCACTCTCATGGTTTAAATTACCATCTATTC  
ACTGATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGG  
TCTGCACCCACATATGCAAATAAATACCAGATATCTCTCTGGTTATATT  
GCACATATNTCAAACCTCAATANGTTCAAACCTGAATTCATCTTCCCCCT  
AAATGTATTTTTTCTTCCCCCTCTTTTGATAAAAGGGATTACCAAAAACC  
CCACCCGCCAGGTTAAAAACCTGGTTTGAAAAATTTATTGTTTTTTTAC  
CCTTTTTTAAAAGG

>Sequence 951

GGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCAT  
CCTAACTTCTGTGAGATTTTTTTCAGAATAATTTGGATGGTTCTCTCACT

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Table 2

TTTGTTATTAAGCATTGTTGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGC  
CAATCTCATGGCATTGAACAGAGAAGATATGTTTTACGTCTCTAACCAG  
TGTTTTTCATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAACC  
AAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAA  
CTA

>Sequence 952

GGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTA  
TAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTG  
GAACCATCAAATCTGTAAAGACTGAAAAGAATACCAATGTTTAAATATAT  
CTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCA  
ACAAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCCAAAAAGCTGAATTTTT

>Sequence 953

GGTACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCT  
CCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAA  
AACATGACCCCTCCATCCAGAACCAAACTAAACTCAGGAGTGATTAGAAT  
CACCTGTGGGCATTTTCCCCCAAACCCACTACTCTGTAGATTCTGATA  
AGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCAA  
GGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGATTA  
TAAA

>Sequence 954

GGTACCAGATGTTGTAAATTTACTATAATTAATAGGAATTAATTAATGA  
ATGCCAAGGGGCAGAGCCCACTTCCTATGATAGTTCCTTGCTATAAGGT  
GCTATTTANNGTTCTCTACATTTACTCCATAGTAAGCTGTTGTTTGAGAA  
AAAAAATGCCAGTTTGGTGCGTAGTAGATACGCAGAGGCTGAGAAAGGAA  
CAGATTACCCATTACCCAATGGTTACAGAATGTATAATGCTTCCCTTAA  
ACTGGTTGATTTGTTTTTTTACA

>Sequence 955

GGTACCTTTAAGCCAGATTCTATGGTATGAAGGCAGCAGCATAGCACCTCC  
ATTGACCCACATGGGGGCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCT  
CAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTG  
GGTTGTTGTGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAG  
GGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCTGTTGAATTGGA  
TGACAGTGAACCTTGCAGCATTTCTAACCTCAGAAGTTCAAGAG

>Sequence 956

GGTACTTCTGCTTTATTTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCA  
GGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAA  
ATATTCTTAAAAAGAAAACTTAGGATTTTTTTTTTACAAAAGTTAACTTA  
AAATGCATTATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGT  
GAATAGTTCCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAA  
CAAATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGTT

>Sequence 957

CCCTTAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTT  
TGGGGTGGTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATT  
TTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGTTACT  
AAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTG  
TCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATA  
TACGTTTAGGATTATTTTGTCTTCTTGGTGAAGTACCTTTTATCATT  
GGAAACTGTCCATATAACCACT

>Sequence 958

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATACAACCATTAAATAATGCTTATAGGGT  
AAAAGAAAATTTTGAAGCACTGAATTCAGTAACCTGGGTCAATGGTCCAA  
TTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGT  
TCCCTAAATCCACATCAGTTTGTAAAGTCAATGGATTAAATTATTCAA  
TGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATT

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Table 2

## &gt;Sequence 959

GGTACTTTTTTTTTTTTTTTTTTTTTTTTAAAGACAGTCTTGCTAT  
TTTAAGTCCAGGCTGGACTCAAACCTCCTGAAGATTGCTCAAGCAATCTTC  
CCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTA  
GGTTCAGCTCTTAAAAGAGTTGTCAGTGTGGTGGGCGAGGTGGGTCACA  
TACACATATAATTATAAGGTAAAAAATCACAACCTACTACAAGAAAGGTGC  
AAACATTTATGAGAAAACCAAAGAAGGGAN

## &gt;Sequence 960

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATATCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGAT  
TGG

## &gt;Sequence 961

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATATCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACA

## &gt;Sequence 962

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTGGTTTTGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAGGT  
CAACTT

## &gt;Sequence 963

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAA  
AATACAGCACCTGGGTGGTTTTGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTAAATAACCAATAACAAAATTGAAATAG

## &gt;Sequence 964

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGC  
TGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGAT  
AGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAA  
TTGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAAATAGAAATAACTA  
AGCAATCTGAAATGGACTTTAAATAATGATGT

## &gt;Sequence 965

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAACCTGGTGGAGTTGAGGCAACTGCT  
GAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATA  
GGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAA  
TGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAAATAGAAATAACTAA  
GCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAGAGGA  
AAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAA

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Table 2

TACTTATGAAAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATA  
AAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTGAAAAGGAA  
AATTAGTTAATTTTACGAAGAAACAATAAATCTCACAGAAATGTNAAAGAG  
ATAAGATATTTAAAAATAAATCAGAGTAAAGAGATATTAAACTATATACAT  
TTGAGTATATAAAATCCATATGGTGATATGGATACATATATATACCAGAA  
GGAAGGACAGAAGAGATACAATATTTGGACAGAACATGGCTAATTTTTCA  
GAATTATTAAGAACTTGAGCCCTTGAAACAGGTCCAGGAGTACCTTGGC  
CCGGAACACGCTTAGGGGCGATTCCAGCACACGGCGGGCCGTA

&gt;Sequence 966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAACCAAGTACATA  
CATACCAGAATTGGCACACAAAAGGATATTTAAACAATAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGAT

&gt;Sequence 967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAACCAAGTACATA  
CATACCAGAATTGGCACACAAAAGGATATTTAAACAATAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAA  
CTTCTAAAGATGAGAACTGTAGTGTGTTGAGGTGAAAAATATGCTAAATG  
GCATTA

&gt;Sequence 968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAGCTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTC

&gt;Sequence 969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAAT  
GGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTCAACTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTTTATAGTTCTGCG  
TGTT

&gt;Sequence 970

GGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGGTGAAAAGTAGCCAGTGAAGTCATTGTGGGTTTGGATTTT  
TCTTTGTAGGAATGGTTCCCTTAATTTACTAATATAGCTTTTTTCCAAAATA  
TGTTAATGAGTAATTATCCAGGGGTTTTTCTATTATCCTTCCCTTGTGG  
ACAAATTTTTTGTCTGGTCTTTTGTACTTATAAAAGATATTGATTCCAT  
GCCTAATAAAGTGTCTAAATTAATTTATTTGGGATATCTAATTCCTTA  
TTTTTCCAAATATACGAATTCCTATGTATATATTTATTTTTTACCAAAGC  
ACCAAGTGAATACTTTTTAAATGGTTCTTTAAAG

&gt;Sequence 971

GGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGTAGAAAGTAGCCAGTGAAGTCATGTGGGTTTGGATTTTCTT  
TGTAGGAAGGTTCCCTAATTACTAATTAGCTTTTCAAAATAGTTATGAGAA

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Table 2

TATTCAGGTTTTCTATTTCTTCCTGTGTCAATTTTGTGTCTTTTTCTAT  
AAATTTGTTTCATCTATAATTTTAATATTTTGGTATAATTTTTTCAAAA  
TAATCTTGATTTATTTACAAGACAGGATCTTAATGTTAATGACAGGAT  
CTAT

>Sequence 972

GGTACTCCAGCCTGGGGGACAGATTGAGACCCTGGCTCAAAAAATTTTT  
TGATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAGAAAAACAAGAAAT  
TAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACTTAAATACCTCAAAATTC  
CCTGTTATACATGCAGATCATTCCCCATTCAGCCCTGGTATGGACTGAAC  
TGTGT

>Sequence 973

GGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAA  
AAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGAAA  
TTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATT  
TCAAAGCACATTCACAAAGTGTATGTCACTTAAATACCTCAAAATTTCCC  
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TGT

>Sequence 974

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CTGGAACAGTAGCCAGTGAAGGGGAGTTTTAAGGGTGGGGGTGGAGGG  
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>Sequence 975

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TAGCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTT  
TTGGTTCCATATAAAATTGTAATAAATTTTCCAGTTCTGTGATAAAA  
TCTCAATCGGTAGTTTGATATGGAATAACCATGAAATCTGTTACCTTGC  
CCCGTGGCGGTCCGCTTCAAAGGGCCGAATTTCCAGCTATCACCTGGTC  
GGTCCGTTTACTATATTGGATTTCTTA

>Sequence 976

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CAAGCTCCCCCTACTGTCTTTTCATTTATGTCAAGGCAGGGGAAGAACCTC  
AAAGGGCTCTTGCAATCCAGTCTCACTTCCCAAAGAGGCACGAGGCCCTC  
CAGGATGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGTCCAGAAGAT  
CACCAGGAGGGCCTAAATTGTAGAAAGGAGAGTCCTTTATTGGGTGAAAT  
GTTTGGCAACTGGGAAAAGATTTGCCTCCCATTTGTGGAAGCAC

>Sequence 977

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ACAATAATACCAATTCATATGGATCTTCAAATTAGTCTTATAAAATTTTA  
TGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAATATTCTA  
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>Sequence 978

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Table 2

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>Sequence 979

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AAAGAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTT  
GAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTT  
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>Sequence 980

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GGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCG  
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AATCAAATCTTACATGATGCATTAAGTCTGAGCTATTTTAAAAATACTACCAT  
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>Sequence 981

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GCTGCCCTGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGC  
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GCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGTAG  
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>Sequence 982

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TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAATTAGCATTCAAGTGCCAGCTCTCTAAAGTGTGGATTCT  
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>Sequence 983

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ATGCCCAGATGGTCTGATTCTGAAGGACAAGAGAATTCAAGTGGCATAAGC  
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ACTGAC

>Sequence 984

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>Sequence 985

GGTACTTACTTAATTTTTTTTTTTTTTTTTTTAGTAGAGATGAGGTTTCACC

273  
Table 2

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TGTGTGTGTTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTA  
ATTGACAAATAATTTTATATATGGGGTATAATGTGATGTTTTGATGTATA  
CATTGTTGTATACGTTGTAATTGTATACATTGTGTTGTATACATGGATGT  
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>Sequence 986

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TTTTTGGTCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGT  
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GTTTTCGNGGGTTGTGCCTCTTACCCTCAACTTTGGTGGTTCTAAAGA  
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AACT

>Sequence 987

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CCACTACGGCAGCATCACACGCCAACTACTCACCAGTTCACGTTTTCCG  
CCCTCTCTCCCACTTGCCCAATCACAGAGTTCCTAAAGAACCAGGACTAT  
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CCCGGGCGGCGG

>Sequence 988

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T

>Sequence 989

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>Sequence 990

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TAGCTGGTTGGTGGCTTGTGTTGACAATTTTTTGGTAATGCTTTGGTGTA  
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>Sequence 991

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Table 2

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>Sequence 992

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AGAGTTTATTTGAGGTTAGAAGTTATCATTTAGGATCTACGCGTAAGACG  
TGTTTTGCGACCCG

>Sequence 993

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GACTTTGGAGTAGTGTAATGTTTACCCTTTTGGCCCGTTGGAACCACT  
GCCTTATGGGGCCGAATATTTCCAGACCACAACCTGGGTGCGGACTCGT  
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GGTCCGT

>Sequence 994

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TCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCT  
GACAATTCGATGTAGGTGGTCTTAGAACATATTTTGAGAAATATATTC  
TGTAAGTCTGGCAGATAAAGAATTCTTAACAAGGAGGTCTGCCCGGCGG  
CCGCTCGAAAG

>Sequence 995

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GAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTA  
GAATTATGTGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACA  
GCTAANAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCTCA  
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CCCGGGCGGCC

>Sequence 996

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TTCCTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGAGGGAAATTTAT  
GACACTAAATGCTTATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGG  
CTCATGCCTGTAAATCCAGCATTTTGGGAGGCCGAGCCAGGTGGATC

>Sequence 997

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TATTGGTGATAGTAAAAAGACCAGACAGATGACATTACTTCCAAATTTTA  
CCAATCTAATTGTTTTTACTCACACCTGTAGATGTCATTAAAAATGTG  
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275  
Table 2

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>Sequence 998

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CCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCA  
CGTGTGACTTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTT  
CTGCTCTGGTATTTTTACTTATATTCTATTAAATAGATATGTGTGTATAA  
ACTTATTGATATAAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAG  
CCACTAATGGG

>Sequence 999

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GTATAAAACTGCATTTTGTCTAGTTTGAATAAGCCCATTTGAATGAGTCAA  
ATTTTTTAAAAGCCTCGAGATCCAACAAAGCTGGAAAAAGTAGGGGTGG  
GGGTAAATGGTTCATTTGAGATGTTGGCCTTCAGTACCATGAGAGGGAA  
AGCAGAACAATGGGN

>Sequence 1000

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CTTCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTC  
ATTATTTCTGTGGCATTATACTATGCCCTTTGTCATATGCTTTTTTCC  
CATAGAGCATTTTTCCCATAGAACTTTGTATTCTCCACTTCTACCACC  
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>Sequence 1001

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TTACATCTTTGTAAAAATTTATCCTAATACTTTGGATTTTGACATTATC  
ATAAAAGAAAATTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAAC  
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CTGTTTG

>Sequence 1002

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ATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGTTATGTTT  
TAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTA  
TCATACCCCCCAAAAAGTGTCATTGGTCTCCAGGACTCTGTAGTCCCCA  
TCCAAGAAAGACTGTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATG  
GTTGATGGTGTCTGTCTATTCTGGTATTAAACAACCTGCCAAATGTCTTG  
ATTACATGTCTCTAAAAAAGTGAGGGGAAGAGTGTAGGACAAATGCAAAAT  
AAAATAACACATTTAGCTATACTTTTAGTATTTTTATTATTGAGATTCA  
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CATAAGTAACTGTGATAAGAACTGTGGATGGATAAGAACACTTTTTTGAT  
GTA

>Sequence 1003

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ATGATAAAACTTCATCAAAGCATACTTGGGCAAAATTTCAATTATCAAGTA  
AAATTGTAAAGAAAAATTTTTACTAGTTTGGAATAGATCTACATGTTT  
GATTTTCTTCTCTCTCCCTCCTTTGTTTCTTGTCTTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGTGTGTGTATA  
CCCATAAAAATGTCAC

>Sequence 1004

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Table 2

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CTTAGCACATTGCATTTTCTCTGTTTCAAGTTAGTTTTCCAAAGGATTA  
CTGACTTTTTACCTAATTTGCTAAGGGATGTCAGGCCTTAATGACATATT  
TCTCTCAAATAAAGATACAACATGCTTTTACTGTGTAGGAG

>Sequence 1005

GGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAGTCCTCATAGCAC  
ATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATAAGGAATATAA  
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AACCTAGAČACATTTATATTATTTCTACAAGTAAACAGAATATCTATTA  
GATATGTTTACAAAGGGTTTTATCAATTTTGAAATCCAAGTGGAATCCC  
CAAATGCTGTAAGGACTTAGATTTTATAGCCAAAACAATTAACACATAAA  
ATGCTATTACATATTTGG

>Sequence 1006

ACATAGTTCTGCTTGCATTGGTCCCATTACAATCCTGTCTAAATCCTGAA  
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AGGAAAGGTTGCATTAATATTTCAGTAGTTAAATGTGCGATTCTAAATTT  
TTTGTAATTTCCCATGAGAGAATAAAATTTTTTCAAAAAATATCCAGTAG  
GTGAATGGCTTTAATACATGGTATCTGTGAAGATGGCAAATAAAATGACT

>Sequence 1007

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TGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAAAA  
GTGCAAGTTGTTACACTTACATATGATAGTTGAATGGCAAACGTGACCAA  
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TCCACCAACAATTAAGTGGGCGGTGCTTTTTTTGCTTTATGCCTTTTTGG  
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CTTTTTGGGCTTGGGGTCTG

>Sequence 1008

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CGAATTCCTGCTCTTATAGCTGATTTTAGCTATTAGGAAAACATCCCAAG  
TTGAGCTTTTCTATTCTAGAAATTTAGATTTCTTTCTTTTTTAAAAATT  
TTATCTCCTTTTATAGTAGTAAAAATATTTTCTTTTTTTTTTGAATGGA  
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>Sequence 1009

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ACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTC  
TCCCACTTCTCTGAGGATTACCTTCCCCTCTCTCAGCATTCCTCTGTCA  
GTGGCTTTTTTTTTCTTTGGCATGCAAAACATGCTCAAGTCTGTCTTATA  
AAAAATAAAAAAAAAATTTATTTGTACCTCGGCCGGGACCACGCTAAGGG

>Sequence 1010

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TCACCTGGAACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCA  
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TCTCTGTTGTTGCCAAACCTGTCAATTTTATTTGGTGTGGCTTCTTGGGA  
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TGCAACAGAGGTGGCATCAGGAACAAATGGGTCATAAGAACTTACCTTGG  
CAGCAGCCCCAGAAATGGTCAGGAGGAAAGGCACTTAAGGTATCAGAAGG  
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Table 2

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C

>Sequence 1011

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TTCTGAGCATGTTCCCTGTAATAGGATAGATAGGCGATGTGGCAGCAACAA  
CTCCCAATTCGTAATGTCTTAAACAAAAACAAGTTTATTTCCCATTTA  
TGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTAC  
TCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAAAAACAAAGAAACCCAAAGA  
TCATGTATGAGCTATTCAGTCTCCAGCCCAATAGTGGTTCACCTTTTAC  
TGACAGAACTAGTCTTCCAGCTCCACCAAACTNCACGGAAGTTCAGGA  
GCCCCAGAGGAGAGAAAAACAACCTTGGGCCCGCGTACCTTGCCCGCGG  
GCGCTCGAAAGGGC

>Sequence 1012

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TCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAAACTCTTACAG  
ATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGGCAAGCATTAATC  
TAAAATTTTTTTTAAAGGA

>Sequence 1013

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GAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAG  
TCACCACAATTTACCATGCATAAATCACAACGGTTAACAAATTAGCATC  
TTTGCTTCTTTCTGTGCACTTACGTTTTATGTAGCCAAGATCACAC  
GTTGCATTTTGCTGCTTTCCTTAACAGCGTCTAAGTCATCAGCACTCTAT  
TGTGATGATTTATCTTAAAAATATTCCAAGCGATCATTTTTAGTAACTGT  
GTAATATTATATCATAAAGTTAAACATAATTTGTCAATTCAATTGTTGAA  
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AAAAGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGTT  
TCCTTAGCATAGAGACTGTGGAATAGGATTTCTTGAAAAAAGGTAAAAGT  
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AATCTTTTTTTTTGGAGATAGAATCTAACTGCACCTCAACCTGTGTAAA  
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CCTATAGCC

>Sequence 1014

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CTGAGTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCCAAAAATTTAT  
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>Sequence 1015

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Table 2

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>Sequence 1016

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>Sequence 1017

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>Sequence 1018

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CAG

>Sequence 1019

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>Sequence 1020

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Table 2

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>Sequence 1021

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TTCACAGACCCCTTATGTAAATGCCTCAAGAGTAAGAATCTTGCTCAAGT  
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>Sequence 1022

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>Sequence 1023

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GGACTATTACTAGAGCTTCTAAATGCTTTCTATCTGTAGGCTTACTCTT  
CTGCATTCTATTTTCTCAAAAAACACCAGAGGTAATTGTTCCCAAACCTGC  
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>Sequence 1024

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Table 2

## &gt;Sequence 1025

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GCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAAATGAATTTATAG  
TGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAG  
GCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGAGAGGCCGAG  
GTGGGCGGATCACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATG  
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## &gt;Sequence 1026

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## &gt;Sequence 1027

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GTTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAAATTAGTGTGAATGC  
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## &gt;Sequence 1028

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CGCTGGATAGTCGACTGTGTGTCTTTGTTGCCCAAGCGACAGCTTTGGT  
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ATAGTACCTGCCGAGGTGGCCGCTCGAAGGGCAAATTCAATAACGCTGGC  
GGCCTGTATTATTAGTATTAGGTTATGTACCAATCGTGGCGTTGATGAT  
GGTCATGCTCTGTTGGCTAGGAGAACATTGGATATAGTTAGGAGTGGTCG  
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## &gt;Sequence 1029

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ACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATAAACAGAC  
CACAGGGAAGTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAAT  
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Table 2

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>Sequence 1030  
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>Sequence 1031  
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TATAAGAATGACAAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCAC  
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>Sequence 1032  
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>Sequence 1034  
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CAAAATTGTTCATTTTCTTTGCCCGTTTTTTCTTTATGAGTAATTTCTTGT  
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CAAAAAACGAATTTTCTGGCGGACCGAACAATTTATGACTGACAAAAAGA  
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Table 2

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GCGTTTTTTGCTGTTTCCACACAAGAATCTGGTTGAATCTCCGTCGAAG  
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TAAGGGGCGCCCTGGATGGATGGCCTTTATAAAACGGGGCCGCCGCCCT  
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CAAACCCCCATTACT

>Sequence 1035

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AGCTTCTGGGCCGTGACTGATAAACITTTTGCCTCCAGCAATGGAAATGT  
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GCACAACAGATA

>Sequence 1036

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GGAGGCCGCCCAGTGTCTGGGCCACGCTGGCAAGGAAGCTGTCTGTCA  
TCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
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CCCTTTGGCGTAACCTCCTGACTTCTGGGAGGCTCAACAAAACCTTGT  
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C

>Sequence 1037

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GGGAAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG  
TAGTGGAGCCTTTTCGATTGAGGCACAGCCCAGGACTGCTTGCAAGGGAAA  
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CCCGCAACACCCTAAGGG

>Sequence 1038

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TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAACTATTGTGACAC  
TTCCTTCTTTCTCCAAATATTCGGCCTGGAAAGACCTAAATACAATGCAG  
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>Sequence 1039

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Table 2

TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTGGATTCT  
TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCT  
AGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGT  
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>Sequence 1040

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TAAGATACTTTCTGGAATTGAAATGATACATTATATACCTATAAAGAT  
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AATGTC

>Sequence 1041

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CCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAAATAAA  
TATAAAAAACCAGTCAACCGTATTCTTATTTCTTCGTGAGAGAATCATGT  
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AGCGCN

>Sequence 1042

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TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAAACTTCTGAGATACCAGAAATTTTCCAAACATGGTATAAACAG  
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ATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTCTATTC  
ATATCTTAACTTTN

>Sequence 1043

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>Sequence 1044

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>Sequence 1045

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ATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGG  
AACCTTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGG  
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CCN

>Sequence 1046

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GAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGC  
TCACATAGATCTTAAAGGAGAGAATGAGGGATTTGCCTACAACCCACA  
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Table 2

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GCCCAGTATTTGCCTTTTCAATATTTACTTTGTAAGAACCTGACACTGT  
AGGTCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAAC  
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TCACTGC  
>Sequence 1048  
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>Sequence 1051  
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Table 2

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>Sequence 1055

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Table 2

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>Sequence 1061

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>Sequence 1062

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>Sequence 1063

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Table 2

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Table 2

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>Sequence 1070

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Table 2

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Table 2

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>Sequence 159

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ATTTTAAGCTATTATTACGTCAACTTGAAGGGG

>Sequence 160

TGGATGATGNATTGGTAGGCCTCATCGCGGTGGCGGCCCGCCGGGCAGGT  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCTGTGCTTTTTTTTATTCGTGG  
TCCAAGTGTAAGAACCAGGATCAATAGTCCCAAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGCATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCTCAAACCTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAG  
TGGAAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGGCAGAATATC  
CAACAAGTCAATCACTTGCCCAAATTGAACGGGTCAAGAACTATGCCAGC  
AGCCAGGGTCTCGGCCGCTAGAACTAGTGGA

>Sequence 161

GATAACGTTGAACCTCATCCGAGGCCGGCCGAGGTACCATCCTATTAATA  
CTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGATGATAGAAATCAA  
TGCAGCGGGTGGGACGAGGGCACCATTTATATTGGACTGACTGATATGGC  
TTTCTATACCAAAGGTAAATGCTGAATGAGAAAACTCTGACTCTTGCAAG  
TATCTATATACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTAT  
TCCCACTTAAACCATGAGGTCAACCCAGGATATAACCCATTGGCAGTG  
CATTGATGTGGGGATGTGCAACTGAATATCCGGGCACCGCCAATCACAAG  
TTGCTGTTGTTGATGCTGGAAACGGTGGCCTTCAACGCCGCTTCCCCCTT  
CCGGGAATCCCCGCGTCTCCCCCGGGGTINNTATTTCTCTAACTACTCA  
GTCTATTCTCACTAAAATATTCTTTATAATTTAACTTTATACGAATTTA  
ATAGTTATTCACTATTATTTATTTTATATATTATTACACAATTTCTATT  
TTTTTTAAATCAATACTTAACTTTTCTTTAATTTTTATTACAATATA  
CCAATAGATTATAACATTTTTACTTATTACATCTTTCTAC

Table 2

## &gt;Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTTGACTGTTGGATATTCTTGCTGGATTCTCCTTCTT  
ACGTAGAAATTTGCCTCTTTCCACTAGGAATGTATCAGCCAAAATTTTGG  
CCTTCTTGTGTTTCGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTCTACACTTGGACCACGAATAAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCCTTGACCAGTCCAAACTGCCCAAT  
ATGGTAACCATGGTCGGCGGTGTAAATGATGTAAGGATTCTNCAGCTTCC  
CCGTCTCCACGAGCCTTGTACAGGCTTCCACAGAATTAT

## &gt;Sequence 163

TTATTATCGATGCGCACCACGCGTCCGGGTGGCTCTATGTAGTTCTAATT  
TGCATTTCTCTAATGACTAACGATGTTAAACATATTTTATGTACTTGT  
TCATGTACTTGTGATATGTCTATTCAATTCCTTTCACCATTTTTATGGA  
GCTGTTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATGCTGCATAC  
CAGGCCCTTGTATATACATGCTTTGCAATGTACATTGTCTTAAATCTG  
TGGCTTGCCTGTTCAATTCATTAGTGGTGTGTTGTTAAGCAGTTTTTAAT  
TTTGATGAAGTGTAACCTATTCAATTTTTATTATGGTTATTGCTTTATGT  
TTCAGGTCCCAAATTTTGGCTTCTCAGAAATCAGAAAGATTATCGTATGT  
TTTCCTTCAAAAATTATATGGTTTTATGTATTTTCAATCTCAAAATATTC  
TCTAATTTTTTTGCTGATTTATTTACTAAAGAAATTTGAGGGATTTGCTA  
TAATGTTAGGGATTTTTCTAGATGCCACT

## &gt;Sequence 164

TCGATGACTCACCGCGGTGGCGGCCGCGGGGAGGTTATTTAATTTCT  
TAGTGTCTCAATTTCTCCTCTATAAAACAGAGATAATAGTATTTAGCCC  
AGAGGGTGTGGTGAAAGTGTGAATCATTTCTCCATGTAAAACACATAGGA  
CAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTACTTGAGAGGCT  
GAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGA  
GATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTC  
AAAAAAAAAAAAAAAAAAAAAGTACCT

## &gt;Sequence 1078

CATGCGCTGTATATAAAATCTTCGTCTTGTGTATATATATATTTAAAAA  
TGTCGATGACGTTTAAACAGATAAAATNNNTNANCNCNGNCGTNNTNNNN  
NNAAGTGGNGGNGNGATTGTATACGACTATATAGGCGAATGGGCCCTCTC  
AAGCATTCNANCNGNCGCCANTGTGATAATTCTCTCTATAATCGGCCG  
CCCGGGCAGGTACAGACTTAGTACCTTTGCTTTTATATATTGTTTTTT  
GCATAGATATGAATAGTTTCACTAATTCCATTCATGGTACTGTAAACATT  
CTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCC  
CTTTATGGACTATAAGTAAC

## &gt;Sequence 1079

GGTACAGCTCACAATTCATGGGGAGGAAAAATCAGGGCCTGTCTTTAGATAG  
GAGATGTATCAAAGAATTTGTGGACATATGTTAAATCACAGCACTACTC  
TTGATGT

## &gt;Sequence 1080

CGATATGGGAGTCGACCCACGCGTCCGCTGCCATCGCCCAATGGGCTCAT  
AAACAAAGTGCCATGGTGGCAGGGATAGACTTTCTCAGCAACATGGACT  
TTCACTCACCAAGGCAGACCTGGCTACAGCCACTGCTGAGTGCCCCATT  
TCCAGCAGCAGTGCCCAACTGAGCCCTTGATATGGATCATTCTTGGG  
TGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTTCCAT  
CATGGAAGGGCAGAAAGTTTCTCCTCCCTGGAATGGACACTCCAGATATG  
AGTTTGCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGA  
TTCACGGAATGCCTTATCCACCGTCATGGTATTCCACACAGCATTGCCTC  
TGACCAAGGCACCTCACTTACAGCTAGTGTGACAGTGGGCTCATGCTCTT  
GGAATTCACTGATCCCACCATGTTCCCCACCATCCCGAAGCAACTGGATT  
GATAGAATGGTGAATGGCCTTTTGTAGTACAATAACAATGCCAACTAA

Table 2

GTGATAATACTCTGCGGGGCTTGGGCAAATTTTTTCAGAAAGCCATTGTT  
GCTCTGAATCAGCATCCAATATATGGCATTGGTATTCCATACCCAGGATT  
ACAAGTCCAGGAAATAATGGGGTGGAAATTGGAAATGGATTACTTAACATTA  
CCCCTAATGATCCATAGAAAATTTGGCTACTGTCCCACACATTCTCT  
GGTGTCTAAAGGTTAGATCCCAAGGAGAAAGTCCACAGAA

>Sequence 1081

GGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTT  
ATGCTGGATGGACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCAC  
CATATTTTTCATCAGCCGCTCATTTGTTTTCTTCTGGATTTTATATG  
GCACGCTGATCTTGCTATGTATCACCTCGAGCCTTCTTTTCATACATC  
TTCCTCAACCTACAGCTCATGATCTTGACGGTCTTTCACCTGTACTGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTCATGAAGAGCATCC  
AGGATGTGAAGAGTGATGACTAGGATTATGATAAAGAAGATGAAAAGGGA  
GATGAAGAGGCTACCCAAGGCAAAGAAATGGATTGTTTAAAGAACGGCCT  
TCGGGCTTGAGAGGCACCTCATTTCCAATGGGCAGCATTTGGCCTTAAGT  
GAAGCCTACAGGAACTCCTTGGCACCAAGTTGCTTAAAGTAACTTGCCCGG  
CCGGCCGATTGAAAGGGGGA

>Sequence 165

TCTTCCATACTTCGTAACCTCTATACATTTACCATTGTTATCATCTACTAT  
AATTATCCATCTTATACCTCCGAACCTCGTTTAAATAGTATTTATCTAATTA  
TTATATAATTTCTATTTATAAATTACTTTTCTNACTGCNAANAGCCNTTGTG  
TTTTTATCCGCTGACGAACGCGCAGGNACCGGCATCAGCATTAGTAATC  
AACCTGTAAATCCAAGGTCTTTAGAAAACTTGAAATTATTCCTGCAAGC  
CAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGA  
GAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAAATTTACTGAAAG  
CAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGAGGGGAGCA  
AAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCC  
ATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCTTAGTTTG  
CAGTTACCCCTAAAGGTGACCAATGATGGTCACCCAATCAGCTGCTACTA  
CTTCTGTAGAAGGTAAATGTCATAATTCTTAGCTTTTCAGGAATAACT  
TTACCCTGGCACTATTAATGAAAGCTCTACCGGGGTGCCTATGTCTTAAG  
GGTGGTTTGGACCTGCTTCAAATAATTTCTTTCACCTTTCCCATCTTCCA  
GGGGTCTTGGGCGGTCTGAACTAGTGGGATCCCCGGCCTGCAGGAATCC  
ATATCAACTTATATGTCCCGCGCCCTCAGGGGGGGCT

>Sequence 166

TTCTATTATTCGTTGATCGACTATTCTTCTTCGGTINTATTGATTGAACA  
GTATTCACTTCTTACTTCTTTTTATACATCCATTATCGTCTGTTT  
ACGATGTTTATCTATTTATTATGTTTCTACATTATGTTTATTACNNNAAG  
GGTCGTTGCTTTGTAGCGCNCCTCTCCNAGTGGCGGCCGNGCGGGCAGGTA  
CTTGCTCAGCCTTGCCAGGCCCTCTGATGAGCTCTTAATCAGCAGGAC  
CAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATGGATGGAGAAG  
AAAGGTGGACAGCCTGTTCTGCTCTCATGTACGCTAGGGCTGGGAACAG  
TTTGTGAGGACTTATCTGTTGTACCT

>Sequence 167

CCGCCCCGAAGTACGNTCCGCTAATATTGATGGCAATTTCTACGTTATT  
CTCAACTCGTTTTTATGTTACTTATATGACATCTACATCATCAGTTTATA  
GTACATAATATNTNTNNAATGTATGTGCTGGTAGCGGGCTGNCGNCCGG  
GCAGGTACGCGGGATGGCAGCTGCAGCGCAAGTAGGTCTACAAGACGCTA  
CTTCCCCTATCATAGAAGAGCTTATCACCTTTTCATGATCAGGCCCTCGGA  
ATCATTTTCTTATCTGCTTCTAGTCTGTATGCCCTTTTCTAACAAT  
CACAAACAAAATTTACTAATACTAACAATCTCAGACGCTCAGGAAATAGAAA  
CCGTTTGAACATCTCTGCCGCCATCATCTAGTCTCTATTGGCCTCCCA  
TCCCTACGCATCTTTACATAACAGACGAGGTCAACGATCCCTCCCTTAC  
CATCAAATCAATTGGCCACCAATGATACTGAACCTACGAGTACCT

>Sequence 168

CTTGTCCTTTCACTTCACACATTTTTCCAACCTTCTATCTTAATATCACAT

Table 2

TCTCTATATTTTCTTTTTTAATATAAAATATAATATAGTCTATCATATTGT  
ATTAATNNNNNTGTTAAGTGTGCTGTAGCGGGCCGCCGACGCTGGCAT  
TGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTTTCTAGGACAGTTC  
GCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGTCGAAAT  
AGAAGCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACCT

>Sequence 169

CCGTGTGCCCATTGANANTCTGNCTTACCGNGGNGCCGGCCGCCGGGCA  
GGTACTTCCACTATTATTGAATGTATTCTGTATTATAATTGTATATTTGA  
TTGCCTATCTCCCTCAACTGCATTATACATTTTCATGGGTGAGCCAGTG  
TCTTTTCACTCTATTTTCAGTGCCTGCACATTTTCTGGCACATAGTAAG  
CATNCCCATGAGTNATCTGATGNAATAAATGTANTTTCCCTAAATTCAGG  
TTCAGTATNCCTTAATCTGNAAAATACTAAAATCCGAAATGCTCATAAAA  
TTCAAAGCTTTTTTGAGGACCTGACCTCGTGCCTCAAAGGAAATGCTCAT  
TNGGAGCATTTTGGACCTTCAGAAATTTCAAGATTANNGGGATATTCATA  
CCCGTAAGAAATAAGTGCTCAATATTTCCCAAAATNTNNCAAAAAAGTCT  
TTGAAATCCCCAAAACAACCTTTTCTGGTCCCCAAGGTATTTTTTGAAAT  
AAGGGGATTACCTCANACNNCTTGTAACGTNNAAAATACCCATGCANNNT  
ACTNNTTCGATTAGGCACCCATGTGAAAGGGGTATCTTTCTTANNAAA  
TTGANACCCTCATTTGGGNNTTTCGTTCTTCAAGCCAAAACCTTGACCCTGG  
GGEEEEAEFTTCAACATGNNNGCTTTTAAATTCGGTGCCCTNGGATGTTAA  
ATGGCCATGGTTCCTCTTTTTTACCACATAAATTTCAATGGCCCCATCA  
AGATTGAATATTACATTTTCGACCATAACACTGGCCATTCAAGGTCCCTT  
CAACAAGCCCACTCATAANGGTTTTCTCCTCTCTCCATCCAATTTTTGG  
TTCCTTATGAAAATTTCTACCTTTGGCTTTCCCCAGGAAACCTTTAAGT  
AGGTTTCTCGGTGAGGTCCCGCAACACCACCGCAACGCGGGGTCTCCGC  
GTAACCTTCGGCCGGTTCTAGACCTAGTGGGATCCCCCGGGCTGGAGGA  
AATTCGAATTCAAGGCTTATCGATTCCG

>Sequence 170

TGTGTGATGCGTCACCGGGTGGCGGCCGAGGTACTTAGCTGTGTTTTTA  
TTCAAAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTCAATTAGGAT  
GGTTTCACAGTTACCATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGG  
GCATGATTTTCTCATGTAATCCAGGGAGAAAACAAGCCATGACCATTGT  
TGGTTGGGAGACTGAAGGTGATTGAAGGTTACCATCATCCTCACCACCT  
TTTGGGCCATAATTCACCCAACCCTTTGGTGGAGCCTGAAAAAAATCTGG  
GCAGAATGTAGGACTTCTTTATTTTGTTTAAAGGGGTAAACAGAGTGCC  
CTTATGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAG  
ATCAAGAGAGAGAAACAATGAGGAACATTTCAATTGACCCAACATCCTTT  
AGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAAATGGACA  
GTATTGGCAAAATGATACCACAACTTCTTATTCTCTGGCTCTATATTGCT  
TTGGAACACTTAAACATCANATGGAGTTAAATACATAATTTGAAATTTAG  
GTTAGGAAATATTGGTGAGGAGGCCTTA

>Sequence 171

TGTTGTACTTATCGGGGGCGGCCGCCGAGCGGCGCGGAGCATGATGGA  
AGTCGTAGTAGGAAATGGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAA  
CCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCC  
AAGCAGTCTGGGAAGTGTAGTCCAAGTTGGCTTAGCAGTAGTTTCGTTGGG  
GGGGAGCCGAGGTTCCGGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTAT  
GACTGTACCTCGGCCGTCGAGCGGCCGCCCGGGCAGGTACAACCTTTTATA  
CAACTCAGGAGATTAAAAAAAATCTCCACAAGAAGAAGCAACTCAGCAG  
GCCCTGGCATTAAAAATTTCCAGAATAAACAGATATGCATTGCATTAA  
AGGTAATTTTCAAATATTTAAGTTACACCAAGATTTCCCTCCAATATGTG  
CCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGGCATGAAT  
TTTTGGCAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAATTTTT  
TAAAGTGCTACCAAGCAGCAAAACATGTCGCATCAGTTCTCTGCTCATGG  
CAGAAGTGCCCACTGTGAAATCGCAAAAGGTAT

>Sequence 172

Table 2

GACGATGCATTACCGGGCGGCGGCCGGGTACAGATTTAAGGTTGATGGA  
CTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCTGTGGCACT  
GAGCTACTGGGGAAGGAGGGCTCTGTTTTTCATTGTGACACACTGAGTTAA  
TAAAGCACTTACTGAGGGAGCCAGAGCCCAAACTCTAAATGTGCTGTAGA  
AAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAAG  
GATTTACTCTTCAGCCATCTGGTAGAGCCCCAAGAACAAGTTACATGTGG  
ACAAAGGGAGGGAGAGGTATCATGGTGATTAATAAATTCAAACAAAGCTG  
AATGATAAGACCCCAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAG  
GGAGGCAGAGGGACTGAAGGAAGCAGGTCAAGGAAGATACACCC

>Sequence 173

AGAATGACCCCTTACGCGTGGCGGCCGAGTACGCGGGATAGGTGGAAAAA  
AACACTGCCATTACAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGGA  
GCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGTCTGAG  
GTTTGTGTAGTAGTGGGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGA  
TTGAGACTGCATGGGGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCT  
ACTTGAAGGAAGTGGAGACATAAGGAGAGACAAAAACAGGTTTGTGCCAT  
AAAGTATTTTTTCAAAGACACCAAGATGTGGGTAAATGAAAATTATTAGT  
TCACTTCCCTGCTGGCATGAAACTTTGCCTTAAGAAGGGTGGCTGGAATT  
CCAAGGTTTGGTAAAGGGCAATTTTGGGTAAAGGACTGGCTTTTTTGA  
TGCCTTATG

>Sequence 174

GTTTGATTGCGGTGGCCGAGCGGCCGCCGGGCGAGGTACCACTAGGGTGT  
TGTTAAAGGACTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAAT  
GGAATGAAATTTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACAT  
CCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTTTTCATTA  
TTCTGAAAACCAAGTAAATAAAGGCTAAGATTCAACAAGCATTATCCAGC  
CTTTCCTCAATGAAATATATCTTAAGAGAACCGAATAGTTAACATAGAGA  
CATGGCCGGGCAAGGTGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGC  
CGAGGTGGGAAGATTGCTTGAGCCCAAGAGTTCTAGACCAGCCTGGACAA  
CATGGTGAAACCCCTGTGCCTACAAAAAAAAAAAAAAAAAAAAAGTCC  
CACTTCCCTTTTTACTGTAGGGGGGATAACTTTTAGGAATTAACTTTTT  
GAATATTATTTCTTGAATAAAGCATGTGTTAATGGTTAAAAANACAAAAG  
ATCAAATAATAGAAATAATAAGGTCCCTCGGCCGCTTAAAAATAAGGGGA  
TCCCCGGCTGGAGGAAATTCATTCAAGTTAATGATACCGTTACCCTTAGG  
GGGGGGCCGGTACCAACTTTTTTCTTTAATGGG

>Sequence 175

AATCAAGCGCATTATTCTGATTACTGTACGTAATACATCGACGTCTGCTA  
CTCANATTTTTACTTTTATTATATGTACACTCACTCTATCTATATATAC  
TATTATTGTATCTATGAGGCTATNTATATATTTANNNNAAGTTTGGTGTG  
CGCGACCGGCCAGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTG  
GAGAGACTCTGTGGACGTAAAGAAGGGAATGAACACAGAGAACTTTCAG  
CCAGATTCTGTAGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAC  
CATGCAAAATGCAGCGTGTGTGGGAAAGTCTTCCCTCCGTCATTCACTCTG  
GACAGGGACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGG  
GGAATGGAGAGAGACGCCCCGGAACAGAAACAACATGGGAAAGCCTTCA  
TTTCCCCCAGTAGTGGTGACGGCGCACAGTAACACCAACTCGAAAGAGA  
CCTTATGAATGCAAGGGGTGCGGGAAAGCCTTTAATTCTCCCAATTTATT  
TCAAATCCATCAAAGAACTCACTGGAAGAGGTCCTATAAAAGGAGG  
GAAAAAGGTGAGAGCCTTTACAGTTTTTCAGTTTTTTGAAAAACATGGAA  
AAATGCATACTTGGGAAAAAACGCTATGAATGTAAATACTGTGGAAACC  
TAATCGGTTATTCCAGGTTATTTTAAATTCATGTTAGAAATAACACTGGG  
GAAAAACCTACCAAAGGTAACCAATGGGGGAAAGGCTTTATTTTCCGAGGG  
TACCTTTGGGCACATTGAAATAAACTTAACCGGCTGGT

>Sequence 176

CCGGCCAGGACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTT  
TCCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCG

Table 2

TCCCGCTCCTAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
GCCT

>Sequence 177

CCCCCGCTTACCCGACGCCGTCGCGATTGGAACCTCCCCGCGGTGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTTCTCA  
GAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCA  
TCTCCCCACAGACGGGGTGGTTCTAGA

>Sequence 178

TGGGGCGTTGAGACTTCCTCGCGTGGCGGCCGCCCGGGCAGGTACCAAAC  
CATTTTCACTAGTTCAGGATAGGAATATTCAATCAGATTGTCTCTGTAAAA  
GTGAATCAGAAAAATTCACCTGTGTAGGTGTGGGACTGGACAGCTGAGT  
GACAGGGCCCTGGGAAGAACAGAAACCACTTTTCCTCTTTCTCTGAAAT  
ATCAGAAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACA  
TATTGCTGATTTTATTATGAAAAAGAGTGCTAAAGACAAAGGATATTTTC  
CATTCCTCTGGACAGGCAGCCACAGACCAGCACTGCTTGACCCATGTGTA  
TACACATGTGTGCTTTGTACCT

>Sequence 179

TGGTCGTTGTTGCGGGCTGCCGAGGTACTCACAGTCACGCAAATTCAGTG  
TCTGGGTGCAEGGCTCTCCATTCTTCTTGGGTTACAGGTTCCTCAGG  
TCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGAGCGATAGATAA  
ACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGA  
TCCCTACGACAGTCCCCTGCTCCGCTCTCCAGAGCGCTTTGTGAACCTCT  
CCAAATAAGAACAAGGACACACATTGTGTACAGGTCACGAAGATCATTACG  
TTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCT  
TCTTCAATATAACCCCAA

>Sequence 180

TGANAGATTTGCGGNGGCGGCCGAAAACTGATCAGACTGTCTCAGATCAA  
GGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTG  
GGGTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACC  
TTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTC  
CTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGG  
GGACTGTGCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGT  
TCAGAGGAGGTGTGTTATCTATCGATCATCCTCAGAAGGTCTTAATTAT  
GGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAG  
AGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 181

TGGATATGTGCATCGGGGGCGGCCGAGGTACTCACAGTCACGCTCCTCTG  
AACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTC  
CCCTGCTCCGCTCTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACA  
GGACACACATTGTGTACAGGTCACGAAGATCATTAGTTTCCATATGCTGA  
AGGTTTTTCCACTATTCAACTCTGTGGCGTAACCTTCTTCAATATAACC  
CCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTTGGCCATCTTTTC  
CTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 182

TGGATACTGCAATCGGGGGCGGCCGAGGTACATGGATACGTTCTCTTCTG  
GGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTCAT  
TGCACTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAATA  
AACCAGACTCTCAGCAACGCAGGAAAAAACAACCACTGGCTGGCGAT  
CTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTG

>Sequence 183

TGGATATCGAGACGTCTATCGGGTGGCGGCCGAGGTACGCGGGGAGCGGA  
AAGGGAGACTGTGGGGAAGTAGGAGCAACAGCAGGCATGGACCAAGCAG  
TGAAGGATGTATGAAAAAGATTAGCAGTGTGAATCTTGACAACTTATAA  
ATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGAAAGAAC  
AATATACTGGATATTCAGTTGAAAAAAGTAATTGCCTATTAAAAGTAAT

Table 2

GCAAGCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATA  
TAATAAAAGGGCTACAACAGACCATTGAATATCAACAGAATTTGAAAGGT  
GAAAATGAACAACATAAAATAAGTGCTGATCTTATAAAAGAGAAGTTAAA  
GTCTCATGAACAGGAATATAAGAATAATATTGCCAACTTGTAAGTGAAA  
TGAAAATCAAAGAGGAGGGATATAAGAAAGAAATAAGCAAACCTTTATCAG  
GACATGCAGAGAAAAGTTGAATTTAAATGAAGAAAAGCACAAAGAACTAAT  
AGAGAAAAAGGAGATGGAAATTCANAGTTAAATGCAAAGCTCAGAAGTCA  
AAAAAAAAAAAAAAAAATGAAATAATCAAGCTACAACCTAGAANTTGATGCCA  
AACTAGCAAGAGTTCAGACTAAATCAAAATCTATCAGGATTTACTTGTTT

>Sequence 184

TGGATGATGCTCATCGCGGGGCGGCCGAGGTACATGGATACGTTCTCTTC  
TGGGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTC  
ATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAA  
TAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACCTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTG

>Sequence 185

GCNNNATGATTANTCCTTACCGGCCGCGCCGCGCAGGTACGCGGGGGGTGTCC  
GGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTG  
ATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGA  
TGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAAT  
ACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGGA  
GTCTGCATTAGTTGGTGTTCGCAATATCGTTCAGCAAGAATGGGGTGGTG  
CAATTCCTTGCCAGGTTGTCCTGGTGACAGACGGCTGTCTTGCCATTGGT  
AGAGGGTCACTGGAACATTCCCTTACCCACTCAAACCTAACGAAGTGAGAG  
CAACCGGTTTCCACTACCTTTTCTTTCCCATCTAACTTATATAACAGGC  
GCGGGCGCGAATTGGAGGGACCACCGCGCCCTGTCTTGGAATTTCTA  
AAATCTATTATATATTACACATTTGTAGGGGGCCATATTATAATTGTGG  
CCGCCCCTGTGTGAAAAAAAAACTCCCTCGGCCTATAAAAAGTGGGCCCCC  
CCCCGGAGGGGGAATTAATAATCTAACCCCCCCCCCGGGGGGCCCC  
CCCCCTTTTTTTTTAAGAGAGGACACCGCCC

>Sequence 186

TGGGCCGATGGAAGCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCA  
CGCAAAATTCAGTCTGCGTGCACGGCTCTCCATTCTTCTTGGCTTT  
ACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGAT  
GATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGC  
TTTGTGAACCTTCTCCAATAAGAACAAGGACACACATTGTGTACGGTCAC  
GAAGATCAATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTC  
TGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTT  
TTCCAGCTTCTCTGCGCATCTTTTCTTGATCTGAGACAGTCTGATCA  
GTTTT

>Sequence 187

NGGATGATTGCACTCACCTGGTGGCGGCCGCGGGCAGGTACCAGAGAT  
TCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGGCCTG  
ATCTCTGAACTAACAAACCAGAAAGAGTGGCAGCATGGACTTATCATT  
CAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATACTGCCAAATCG  
CTACACAGACTTAGTGGCCATCCAGAATAAAAATGAAATTGATTACCTCA  
ATAAGGTCCTACCTACTACAGCTCCTACTACTGGATTGGGATCCGAAAAG  
AACAAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCACCAACGA  
GGCTGAGAACTGGGCTGATAATGAACCTAACAAACAAAAGGAACAACGAGG  
ACTGCGTGGAGATATACATCAAGAGTCCGTCAGCCCTGGCAAGTGGAAAT  
GATGAGCACTGCTTGAAGAAAAAGCACGCATTGTGTTACACAGCCTNCTG  
CCAGGATATGTCCTGCAGCAACAAGGAGAGTGCCTCGAGACCATCGGGA  
ACTACACCTGCTCCTGTTACCCTGGATTCTATGGGCCAGAATGTGAATAC  
GTGAGAGAGTGTGGAGAACTTGAGCNCCTAACACGTGCTCATGAACTTG  
AGCCAACCTCTTGAAACTTCTNCTTTAACTCGCAGTGGAGCTTCACTG

Table 2

CACTTGACGGTACCTTGGGCGNTCTAAGACTAAGT

>Sequence 188

GGAGGATGTGCANNNTNTTTTTGAANANGCGACTCCACCGCGGTGGCGGC  
CGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAACACAGGTGT  
CAGATGCATCACAAAAGCAGAAAGTCCCTTTCAGCTCTTCTGTGCCAT  
TCCTTGTCAATTTCAATGCTGCCTACAGCAACAGCATAATACTGCAAACAG  
CCATGATGTCACTCGAAGTGTCTGTGATTGACAGAGAGGGACACGT  
CGTAGTCAAGAGGTGTGCTCCTCAGAAGAATATCAGAACTCAACTCGCTG  
TGCCTCCAAGGGGCTCAATCCCTTGATTGAGGGGAGGGATGNAATATT  
CTCTGCATGAAGAGAGCNAGCGGATGGGAAGTGATACTAGGTATGTAAAG  
GATGGTCAGTTACCTCTAAATGTAAGTTAGACCAGGACAGCCAGAATCAC  
CGAAGGTCTTGGTTAAGGTCCCTCTGTAACAAGGCCGTAGAAGGCCCAGA  
AATGTNGGTGACAGCGAGACACNATTTCTTAAACTCTTACANCTTGTGT  
AAATGAGTAAGAAAGGTGACANTTTGTTTTGAAAAATCCCCCTCCCCAGC  
CCTTTTGTTCCTCAAGAACTCAGTTATTCAATTTTCTCGGTGCCCTAA  
CATAAGTAGTTCCTTAAAGATAAAACACTACCTACTTGCAACAAAATCA  
TNAGAAGTGCCAGAGCCATTACCAAGATGGGTTACCATAAGAATTAATAA  
AATATTATTGCAAAAAAATAAAGGTCTAAAAGTTAAAAAATGGGATTA  
AGATGGTAACTCTTACCTAATTCCTAAAAATGGCTTGTATTAAACCGAA  
CGGCTTGGTACAAAACACCGTGGTTTAAATCTACCGGAAAGTTGGTC  
TTAACTTCCCTTCCCTCCCTGACAATCTTAAATACCT

>Sequence 189

CCGGGCAGGTACCGGNGAAGGAAAGCAGCTGCAAACCTCCCATCTGCAG  
TGTTTGTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATG  
AATTCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTG  
ATTAAAAAGCTTTATTGCTCACACAAAGCCTGTTGGTGGTCTCTTACA  
TGGACGCGCGGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTT  
GGGAGATCAATCCCCTGTCTCCTGCTCTTGTCTCGTGAGAAAGATCCA  
CCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATCTCACCAA  
TTTTTAATCAAGAATATTCTGTGAAAAAGACTAAGATATCAGAGAAATTA  
TTAGTGCACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAA  
AAGACTCTTGTCTTGAAGAAGACACAAAGAAATCATCATCTTATTGGGA  
TTACTGGCTAGCCATATGCAGAAGATTGAAGCTGGTCCCCTTCTTACACC  
ATATACAAAAAGCAGCACAAGATGGATTACTTAAATGTAAACCCAAAAAC  
TATAAAAAACCCCTGGAGGACAATCTATGCAATACCATTCTGGACATATGA  
AAAAAGCAAAGGATTTCTGTGAAAAACCAAAAGTTATTTGAACCAAAAGC  
CAAAAAATTGACTGGTGGGATCTAATTAACGTGAGAACTTCTTGACAGCC  
AAAGGAAATTGCGGCCGAGTAAATAGACCATCTTAATAATGGGAGAAAAT  
ATTTGCAAACATATGCTATCTTCAAGGGCTTATTTTAGCCTTTATAAGGT  
TGTTTCCAAATTCCC

>Sequence 190

TGAATGATCTGATCGCGGGGCGGCCGCCCGGGCAGGTGCCATCGCCGTCC  
CATTGCTCAGGGGACTGGGAAGGCGATGCCTGGCGGAGCTGCTGGTGG  
AGAGACTCGGGATGACTCCTGCTCAGATTAGGCCTTGCTCAGGAAAGGG  
GAAAAGTTTGGTTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAAC  
TTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAGAAA  
ATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGA  
AAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTGGCCAGGACC  
TGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACG  
AGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAAGCAGTCCAG  
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCGGATGTGA  
TTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATCCACAGCCATGAAT  
TTCACAGCCATGAAGAATGCTGTTGTAGACCCCAAAAGTAAGGAAGAGG  
ATAACACCTTGATTTTCTATTN

>Sequence 191

TGGGAAGTGATCTAATCCCTCTACCGGGAGGCAGACGCCCGGGCAGGTAC

Table 2

TCCCTGGAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCAG  
GGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAAGATTGGGGGATGCT  
GGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTG  
TTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTTCGTA  
TAAGGTCCTTTTTGAGGTTTATTATTTCTTGTCCATATACTTGATGCTC  
TTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGG  
CCGGACAGCCCCGAGTTGGGGGAAGTCTGAAGCTTCTTGGTGGCTGGAA  
CCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACA  
AGGATTTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAAGTTT  
CGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACACGAACTCCAAGCGG  
TTTGCTTCTNCCGCGTACCT

>Sequence 192

GAATGATGAAGCCCTCTACCGGGTGGCGGCCGCCGGGCGAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTCTGGCTTGAAATACAGCTGAAATAACTG  
AATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAAGGCCCT  
GGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCAAGTGAAG  
GGCGGGTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCGCGTA  
CCT

>Sequence 193

ACTGTACAGACTAGTACTTTATCATACTTAATAAGTGTGTATGTTTCAA  
CAACGATTATCTGTATACAATTCTATAATTTATATAGAATATCTTATAAT  
GGTTTGATAATTACGTTTTATTAATAATTACANNANTANNATGGGGCGTTG  
AATTAGATGCGCCTATCGGGNGGCGGCCGAGGTACGCGGGGGCTGTAGTG  
GCTTCGTCTTCGGTTTTTCTTCTTCCTTCGCTAACGCCTCCCGGCTCTCGT  
TAGCCTCCCGC

>Sequence 194

CGCGCATCTTGTGTCTATAGTTAAATCATCATCTCTGAGATCACTATTAA  
TTGTCACCGTATTGCAATTTCTTCAGATGATGATTGAACAATAGCTTATG  
TGATATCATGTACGTCTGTTCCTTTCTCAANCCNTTGGGCNAGATGATTT  
GGGAGACNCTCTCCGCGGAGGCGGCCGAGCGGAGCTACAACAACCGCG  
TCGCTCTCCGCTCAATTTCCAAGAGCCAGCTTTGAAGCCAAGTGCCCCG  
CGTACCT

>Sequence 195

AGGACGATGGTTCGNANNTGCAGCNTTACCGCGGTGGCGGCCGGTGTGCTG  
TGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGT  
GGCCGAAAAATGCTGCCGAAGAAATAAAAACCCTGAAACATGACGAG  
AGTGTTGTAAAGTGTTGAAATGCC

>Sequence 196

TGGATGATGCGCTCACCGCGGGGCGGCCGAGGTACTTTGAGCTCATAAGC  
TGGTATAAAATATCAAAACATTTTGAAGTTTAAACAACCTCAAGATATGTT  
TTGCAAAATTACAAAACATTATACAGGTGACTTAATTAATATCTACTCCA  
ATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACACTT  
AGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTG  
TAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTT  
GATATTTAATTAAGGGATGATGAA

>Sequence 197

TTCTATCGTATGTATATATCTATACATGTCTTATCTATGTGTCTATCTTT  
TATTTGTTTTTGCATCTATATTATTTTTTAATGCGTGTATATATCTATNT  
ATTTTGGTGTATGCGTTCTCGNGTGGCGGCCGATGTACCTGCCTCACAGT  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTG  
GGAGCGCCTCACTAACTCCATGATGATGCA

>Sequence 198

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTACGCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGTACCT

Table 2

quence 199

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGC  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGG  
CAGTTTGTGAGGACTTATCTGTTGTACCT

quence 200

AAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGG  
TTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCT  
AGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCC  
JTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGG  
C

quence 201

GTCGTTGTTCTACTAAGTATATTACGTGTTCTTAATCTAGTATTATAC  
JTTTCTAATATACTCTCAATCTTATTTTGTATATTATAATTTTGT  
TATATTATTATTACATATCCAATANATCNATTATATGGTAGTTGTCCG  
JGCGGCCGAGGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCTCAACA  
TCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGG  
AAGGACAGATGAAGCT

quence 202

ACTGTGTTTATCTATTTTCATGTATCTGTAATTTCTATTTATCTATCTAT  
AATCTTTTTTATTCTTTATTCTATTTTATCATATATTGTTTTATATAT  
NCNNTTGGCTTTGTCTTTGGCGCTCTGGCTGCCGTGGTACTTGGGGCA  
GAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAAGATGACGA  
JGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTCTGT  
TGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGAAGACTAGG  
TGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAGGCAGACAA  
AATGCGTTCCATTTATAACAAGTAATATATATCAAAGACTTAAAGGAG  
TAAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAGGAAGATCA  
GTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGCAAAGACCA  
ATGGTACCTGCCCCG

quence 203

TTTCTGTTTCAATTTTCTCATAATGGATCTATTTATTGTACTGTTTAT  
TTTCTATTTATTTTCTAAATTATTTATTATTTTATATATATTAATT  
ATNTNCCNCTTNTTGGTGTTGCAGTNACCGNGTTGGCGGCCGCCCCGG  
GGTACGCGGGGAAGTCTTTCCCTTCTCGTTCCCGGCCATCTTAGCGG  
JCTGTTGGTTGGGGGGCCGTCCTCCTAAGGCAGGAAGATGGTGGCC  
AAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAAC  
TTATGAAAAGTGGAAGTACCT

quence 204

GATGTAGTTGATGCGCTCACCGCGGTGGCGGCCGAAAACTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA  
CCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
GTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
GAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGA  
ACCT

quence 205

ATGTGNTTTTGAAGCCTCTACCGGGTGGCGGCCGAAAACTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA

Table 2

CCCCAAGGATGGTTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
AGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
AAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGA  
GTACCT

>Sequence 206

GGCGATGGATTGATGCGCTCTCCGCGGTGGCGGCCGAGGTAATCAGTC  
ACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCA  
AATAAGAACAAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCT  
TCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTG  
GCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 207

TGGATGATGAATTGAGCTCCCCGCGGTGGCGGCCGCCGCGGAGGTACATG  
GTTCTTCTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCCTT  
TCTTCTTCTTCTCAGATGTTTCTTCTTCTTCTGCCACTTTTCTTCT  
TCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACA  
CTGTATCAGATCTCATTCTCCAAAAACGTTTGAGTCTAGTTTTTTTC  
TGTCATTCTCATCAACTACCCAATGTTTGTGTTTATTTATAATTGG  
GAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATAGAG  
CTCAGAGCAATCTTCTCAGATCATGAAGTCATGTATAAAAAATCAGGATT  
AAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTA  
TATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTTT  
AATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGAAGCTC  
CCTATCT

>Sequence 208

GGTGATGAATCCACGATCCCTCACCGCGGTGGCGGCCGCCGCGGAGGAC  
ATGGTTCTTCTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCC  
TTTTCTTCTTCTTCTTCTCAGATGTTTCTTCTTCTGCTGCCACTTTTCT  
TCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTA  
ACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCTAGTTTTT  
TTCTGTCACTCTCATCAACTACCCAATGTTTGTGTTTATTTATAAT  
TGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATA  
GAGCTCAGAGCAATCTTCTCAGATCATGAAGTCATGTATAAAAAATCAGG  
ATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAA  
TTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGG  
TTAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGAAG  
CTTCTATCTATAAACTTAAGAAATGTCTTATCTTACTGGACTGTTACTG  
ATTTAAAAAGAT

>Sequence 209

CATACTATATAATATTACGATATAATGATTATATCGATCTTCTAACTTA  
ACTATGTATATAATTATAAAAAATAATTAATACTACGATGAGTATATCTTA  
TGATCAACTACCAAATCTGTATGATACGTATCTCACCGCGGCGGCGGA  
CGAGGTACAGACATAGGCACATGTGCAAAACACAAAGAAGGTGGGCTGCT  
GCTTCTTTCTATCTGCCCTAGACCAGGCTCCTTTGCTTCACGTAAGATG  
GAGACTGTCCCATTCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGA  
AACAAATCTCACTGCCTATAAACTGTAGTCACATGTGGGATAGTCAATA  
GAACATGAGAATCAGAACAATCTGGGCAAAATGGGTATGGCAAGAATGGGA  
ACACCACAACAGGACAGATGCCAACTCTCATTATGCCAGGCCTTTTGGC  
ATATGGGTGCCTTCTGTGCTTCTTCCACCTATTCCTCAGTCTCAACA  
ATCTCTTTGACCCTGACCGGGCG

>Sequence 210

GGGATGTGATTTTCGCTCACCGCGGTGGCGGCCGAGGTAATCAGTCACG  
CTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTA  
CGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAAT  
AAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCA

Table 2

TATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCA  
ATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCC  
ATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 211

TGGGCTATGATGTCGCTCACC GCGGTGGCGGCCGAGGTACTCACAGTCAC  
GCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCT  
ACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACTTCTCCAAA  
TAAGAACAAGGACACACATTGTGT CAGGTACGAAGATCATT CAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTC  
AATATAACCCCAAATG

>Sequence 212

CAGTCTACATCTAGTNTCTCTTTTCATNATCTTGTATAGATGTATAACT  
ATCATCCTTCTGTTACATATACTTATTGCTGTATTATGGATATACATA  
TATCAATTTACATTAGTTAGAATTTTATGTCTATAAACAACCAAGACGAT  
GATTTTCGAGCCCTTCACCGCGNGGCGGCCGCCGGCAGGTACTTTTA  
AATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGTT CAGGCTGA  
ACTTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCC  
TTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTCCCTGTC  
TTGAGATTGCTCTGGAATGGAAATTAGGCTTTTTTGAAGGTGTGACCTT  
TTTGTTCATTTGTT CAGCAGTTAGTTTTAATTTTTAAATGTTTGACAGA  
CAGTCTCTGATAAATGATCATTCACCAATCACCGATTACTCTCCTTGCTC  
TGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCC  
CATAACCACACACCCCAAAAAAAAAAATTTATGTCTGGTTCCAGGAGTT  
ACCTTTTATGAGAAGTCCATTTGTGAAGAACCTGGATGTT CAGAGAACTT  
CCTGGGAAACACTGGAAGAAAAATAAGAGGCCGCCGCCGGGGCTCATGC  
TTGGAATCCCCACACTTTGGGAGGCTTAGGTGGGCAAATAAACTGGGGTC  
AGGAGT

>Sequence 213

TCTCCCTCGTACTCGATCATCAGAGTATACATATGAGTGTACTCTANTAC  
TACTACGATCTCTATACTAAAGTTATCCTATTCACTTTAGTGCCATCTGG  
TTCTATATGAAACTTAATATAATCATAGCGTGTATATATATACTATAT  
ACATTACCATGGCGGTAGATTCTGAAGCCCTATCCGCGGAGGCGGCCGTTT  
GAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGT  
GCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCT

>Sequence 214

TGGCGATGTTTGATCGAGCTCACC GCGGTGGCGGCCGAGGTACATGCCTA  
CAGATAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACTGCACTCCAGCC  
TGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
AAAAGAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATAC  
CTAACATATTTTTATTTCAATATCTAACAGTATAAAAAATTTACTTGT  
TGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAACAGAAGTAATACCTGAT  
TAATTAGAATTCCCAACCCTCATCAAGTGTGTGCTTATATAGAAGAAACC  
CAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGGATGAGA  
GTGAGGAAAAAGGTATTAGTATTGGCTTTTACAACCGCCTGGACCTGCC  
CGGGCGGGCGCTCTAGACTAGGGGGA

>Sequence 215

TTTTAATGTGCATCTCGCAGGGCGNGGCGGCCGAGGTACTTTGGAGTCC  
CCTGGTTTCTAAGAAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC  
GGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCTATGGAAGCCG  
CGAGCGTAGAGGTTCGCGCTGCTCTGCCGGA CTTGAGCAGGTCACTGGGT  
CCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTG  
CCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACC  
AGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCAAGATTCT  
GCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGC  
CTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGAGAGCAAGG

Table 2

GAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGA  
GTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACC  
ATTAGAGGTAGAGCTGCGACGCCTAGAAGACCTTTCAGAATCTATTGTTA  
ATGATCTTGCTACATGAAGAAGAGAGAAGAGGAGATG

>Sequence 216

GGGTGTTGATAGATCGAGCTCCACCGGGTGGCGGCCGAGGTACTTTGGAG  
TCCCCTGGTTTCTAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGG  
CACGGTAACCAGACTCCCTACAACCTGCACTCTTTGCTTTGTATGGAAG  
CCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGACTGTGAGCAGGTCCT  
GGGTCTTTACACTTGTGAATTGGAAGCTTGCCAGATGTATCCTCAATGC  
ATTGCCACTTCTGCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCC  
GACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGA  
TTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAAT  
TTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGAAGAGC  
AAGGGAACAGGGCGGATACCTGACCACTCGTGATCCTAGACATGAACATG  
GAGTGGAGGCGAAAAATTACGAA

>Sequence 217

TGGTNTACCGTGACCTCACCGCGNGGCGGCCGAGGTACTATCAAACAA  
CATGATACAATTTAAATGTGTCATAGCAACTACTAGTGGTCACCTGAAAT  
CCATTTTCCCCTCCTTACAGTAAGAGTITTAGCTGAATGAGTGGCCACT  
CATAGAGAGATTGCATTTCTGGCTTCCCTTGACCCATAGGTAGCCATGG  
GACAAAGTTCTAACCCAGGGGGGTCCAATCTTTTGGCTTCCCTGGGACA  
CACTGGAAGAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCAT  
CAAGGATAGCTGATGAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCC  
G

>Sequence 218

GGGGNATATGTGCGCTCCCGCGGTGGCGGCCGAGGTACCATCCTGTTCCA  
CAGAGCCATTGCCTATTCCTAAATTGAATCCGACTGGGCGTGCCCTCCT  
CGGAACACAACAGTAGACCTTAATAGTGAAACATCGATGTGCCTCCCAA  
CATGACAAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTGAAGA  
TAGCTCCTGCCTCCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCC  
AAGCATGTGTAGTTGGCCAATGAGTATGCTGGCTTTCTCATGGCTCTGGG  
TTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACT  
TGACCAAGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTCTTCT  
GCTGCAAACTAGGCACCATGGATATGTCTATTACTCGGCTTCTTAGCAT  
TCACATTCCTGCTCTTACCCCCAACGTCCACAGAGCTGGATGTTCTC  
ACAATGTCCAAGTGCTGCAAGTGGTGGCATTGGCCTTGCATATCAAGGG  
ACAGCTCACAGACATACTGCAGAAGTCCTGTTTGTGAGAA

>Sequence 219

CACTACTCATCTCATATAACTCGATTTGATCATTTATACTAAATACTTCT  
CATTTTTTTTATTTATTTACTACCAAATCTTTATTTCTTATATAAAATAT  
TTAAAAATACNCANAGGGGGCGTTGGCTTGAGGCCCCCTCCGCGNGGCG  
GCCGNTATTGGTGGTGAAGACCCGTAGCAACAGTGGGCATGTCTTCTCGC  
GGTCGATCGGTTTCTCTGGCTCCTTTTAA

>Sequence 220

GATATGTTGAACCNNTTAGAGACGCTTTCGCGGTGGCGGCCGAGGTACC  
ATGATATCATGTATCCTGCTTGACATTTTGGGAAGGGGGACCTGCTGTT  
TGGCCAATTTATCCTACAGGTCTTGACGGTGGGACCTCTTCAGAGAAGA  
TCTGGTAAGGTGAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAG  
CATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTT  
CTGTCTCGAAAAACCCAAACTTGTGATGCAGAATACACCAAAAAACCA  
GGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATG  
TCCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTTAAATTTTCGAGGC  
GTAGCTGCAAGTTTCCGTTTAAACACCTCTTCTGTGTGGCTCACTGT  
TTTCCATGTTGGTGTGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGC  
CATGGGTTCACTATATCCCAATCAAAACAGATCTCTCAATGTCCAAGAG

Table 2

CTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAGAGATTGCTGA  
AAGGTGAAGCCAGTTTATTATGT

>Sequence 221

CATGCATCTCTCTNTGTCCATCACTATTTTGTAAATATCGATATTATAATG  
TCGATAAGTATCTNTTTGTGTATGTATTTTATACTGTCTATCGATCTATC  
TGTTATTATNTAATAACNANANCAGANTTGTGACCATTTTCTGAGGCNC  
GTCGCCCCGGGCAGGTACAGCAACAAGAAATCAGATGCTCTTTAGAGATCCT  
CCATTTCACTACTCTAACATTTCTTCAATGTGGTTCCAGCCACGCATAGTC  
ATATAGATACTACATATTTCAAAGATAAATTACTGAAGCTTGTTCACAGAA  
CCAAGCTTTTCTCCTGATAGCTCTTCTTCCCCTACCCCGCACTTTTGGAAG  
TATTACCCCAAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAGACA  
CTTAACACCACAAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTA  
CTCCAGATGCTGTATTCAAACCTGTATGGGTCCGTTGAAAAAATAGATATA  
ACCATTTTCTCATAGACAGCATCTACTTTATCACCATTCTCTGGGAAGT  
CTTCTTCTATTAGTCTCGGATAGTCTTTATCCATAAATATGGCTAGTATCA  
TCATATCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCCTGTATC  
CTCAAAGTGAACAGCTGCACTTATCTTCTTAACTTCTTTTGGAAGACCCA  
GTTTCAGATAATTTTTTTGGGATAACCTTCCAAAATGTCATAACCATT

>Sequence 222

TCATCACTCACATTCAGTATCCTCTCATTTGTTAGTCTAAATACAATCGTT  
CTAATATCACACTCGTATTTTCATAATATGTTATAACATGTTGACTTATGT  
TCTAGGAGATATCACTTATATTAATGCACTTAGTGGGGTTGATTCCGAGTC  
ACACTCCGCGGAGGCGGCCGAGGTACGCGGGGAGTGTAACTATGGCCGGC  
CTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAG  
CAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGA  
GATCTATTAGGATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTTT  
TCTGTAGTGATGATGTCCATATGGCCATATCTCCAAAAGATTGATCCGAC  
AGCTGATACAAGTTTTTTGGGCTGGGTTATTGCTTCATATAGTCTTGGCC  
AAATGGTAGCTTCACCTATAATTTGGTTTATGGTCTAATTATAGACCAAGA  
AAAGAGCCTCTTATTGTCTCCATCTTGATTTCGGTGGCAGCCAACTGCCT  
CTATGCATATCTTCACATCCAGCTTCTCATAATAAAATACTACATGCTGG  
TTGCTCGTGGATTGTTGGGAATTGGAGCAGTTTTTCAGAACTTGTTTACA  
TTCCTTGGAGAAAAAGGTGACCTGGGATGTGATTAACTGCAGATAAAC  
ATGGTTCCACACCCGGTTACTTAGCGCCTTC

>Sequence 223

TGAGGTTGATTCCGACTCCGNGTGGCGGCCGGAGTGATGCCATCTGCAGTT  
TTGTGATCTGCAATGATTCTTCCCTTCGAGGTACGCCATTATCTTTAAT  
CCTGACTTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCAC  
TGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGT  
AGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCTGGCGGGGCT  
GGCCCAGCATCAGGATTTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGA  
AAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCCAGA  
TATACCAACTGATTGAGTATCTACAAAAAACTTGCGAGTAGAGGGTTG  
TTTAGAGTACCT

>Sequence 224

TGGAATGTTGGACCTCTTCGAAGGCGCGGCCGCCGGGCAGGTAATCCCT  
GTAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCT  
AGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGT  
TCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTC  
CTCATTTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGA  
AGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCCCT  
GGACATGTACAGACTCTCATTTTATGATGTATCCTACTGCATCAGGACAT  
TTGTGTCAATGTCAAGGTGACGAGGGGAAATGAAAGTGATGAGACGATGAG  
AGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTGTT  
ATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAA  
AAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCA

Table 2

TAGAATTATTTTCATTGTAAATATTTGGTATCAGGCCAAGCAAGGGAAA  
GAAGCTTTACTGTATTACCATCTTT

>Sequence 225

GGGCGATGATTGGTGCCTCCCCGCGGTGGCGGCCGAGGTACTCACAGTC  
ACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTTGGCTT  
TACAGGTTCCCAGGTCAAGAGCTTACCCATAAATTAAGACCTTCTGAGGA  
TGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
GTTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTCCAGAGCG  
CTTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCA  
CGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACT  
CTGTGGCGTAACCTTCTCAATATAACCCAAA

>Sequence 226

TTGGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACCGGGATGGATA  
GCCGCTTGACAGGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTC  
GCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTAAA  
TAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAAACTTGCAGGG  
CTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTATCTGGATGAA  
GGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAATAAAGAGATT  
TTCTTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGATAAG  
GCTAATATCACTGACTGATGAAAATG

>Sequence 227

TGGTTGTTCCNNTANNATTTGAAGCGCTCACCGCGGTGGCGGCCGCCG  
GGCAGGTACGCAAAAGTGATTACAGAGAACGCTGGGGCTCACAGGCGCTGTA  
GCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACAC  
AAAAAGCTACAGAAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGT  
TACTAGCTCTGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAAT  
TGTTAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCCTTCTACAA  
ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGA  
GATGGATAAAATG

>Sequence 228

GCATAGGAAAGACTTGGCTGTTGGGAGGGGCGTGCTTACACCTTAGGAA  
GAATCCTTAGCTGTACTTTCCTGTCTCTCCTGGAGCTCCCTCCTACCCCC  
TAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTT  
CCTGCATATGCTGCGCAGTATGTGCCTTGAATAAAAATCCTGAAGATTAG  
ATGGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCA  
CCTGCCCGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATG  
TAGCTTTAAACAGTTACATATAACATGGAACAGTATGACATGAAAAGAG  
AGAGGTTTATAGAGGGAGAATGGAATTGGGACAGCCCCTGCTTACCGAGG  
TTGCCCTCCAGTCCTTGATTCTTTTGGATCCCAACTTCCTGTTTGGCTG  
AAAACGGCTGGAGCTTGCTCCTTGCAATCTTGGCCTTACAAAACCTGGACT  
TCTGGCCCATCTTTAAATTTTGATTTTTTCTTAGGAACCCCGTTAAAGGT  
TTTGTGGGAG

>Sequence 229

TGATGATTGAGACCTCTCCGCGGGGCGGCCGAGGTACTACAGGATGATGG  
CTTTCTTCTCCTCTGGGTACAGGCAGGGCCATGGAGTTGGGGAGAGAAT  
GTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATTTGGGTGAAG  
ACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCCGGCGG  
TCGAGCGGCCGCGCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTT  
TATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAACCTGTTACATTGGT  
CAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTATTGGAATGTTAT  
TTTATTAAGCCATTTTCATGGGTTATTTTTTTTTTAAAGTTTAAAGAGTTT  
TTACAACAGGCTGGGGGGGGGGTTACACCTGGCAATCCAGCACTTTGG  
GAGGCCCGGGCGGGCAAAATACCTGAGGTGGGAGGTAAAGAACCGGCCTG  
CCCAAATGGGGAAACCTTTGTTTTTCTTTAAATTCCCAATTAATTTCCA  
AAATTTAGGTCCTTGGGCCGTTTAGAAACAGGGGGATCCCCCGGCTTGAG

Table 2

GAATTCGATTTAAGCTTATTGAACCCGGACCTTGAGGGGGGGG

>Sequence 230

ACGAACTGTGGCTGCACCATCTGTCTTCATTTTCCCGCCATTTGAAGAGC  
AGTTGAAATCTGGAAGTGCCTTTGTTGGGTGCCTGCTGGATAACTTCTAT  
CCAGAAGGGCCAAAGACCCTT

>Sequence 231

TCGTTGTGTCTTCGGTCTCTTTGTGTCTTCTTATCTTTTCGTTCCCTTTTC  
TGTGTTCCCTCGTCTTTGTACTTTTTTTTCTATTTTCGTCTCACACTAGAAA  
ANNNTTTATGCTTTTATCAACTCCCCGCGGTGGCGGCCGAGGTACGACGT  
TTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCA  
TCTTCTGTATTCTGAAACTGACAAGACGCGGCTTTTATCTTCACCT

>Sequence 232

TGCACTGAGTCGGAGCGCTCACCGCGGTGGCGGCCGCGCCGGGCAGGTACT  
TTATTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAAAAAAAAAAGATAT  
TTTAATATATTCAGATCCACAAATATGAAATAAACTAAGTAGAGCTGGT  
ATTCATTTACACATAATTATCTTATACCGTTTGAATAAGAATTTGGGGC  
ACGTTAGCAAACCAAAAGGCTCAAAAAGACGTCGAGATATTTAGTTCTTG  
TCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATTCTAGGGGAG  
TTCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGCAATCTCAAAA  
AAAACATTTACTAAAAACCAGAGGAAAAAAATCTTATAACTTTGGGAGGC  
TGAGGCAGATGGATCACTGAGATCAGGAGTTTGAGACCAGCTTGCCCAAC  
ATGATGAAACCCCTTTTTTTTTTAAAAATCCAAAAGGTTTCTTGGTTGT  
GGTGGCAGGGGCTGGAGTCCCAGCTTTTCCAAAGGCTTAGGGAGGAGAA  
TTACTTGAACTTTGAGCGGGGGTTGCAATGAGTTTAAATCTCCCTAT  
TGACTCCAACCTGGGAACAAGGGGAGACTTTGTTTCAAAAATAATTTAA  
AAATTTAAACTTGT

>Sequence 233

TGTCCCTCCCGCTCCACACTTACAACCTTCTACATTTCCGTCTCTCGTTC  
TCTTGTTGTTTTCGTCGTTGTATTTTCTTGGTTGCTCATTGTTGTTCCCA  
TNAATNANNNCANTAGCGTTTTCGGCTCCCCGNGGNGGCGGCCGCCCGG  
GCAGGACGCGGGGGGAGTTCTCTTCGGGGACTAATGCAACGGAGAGAC  
TCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATT  
GTTAACCTATAAACGCCAACAATCATTATGACAAGATCTTGGCTCATAG  
TCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACAGA  
TTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAACTGGTATAAA  
AAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGG  
TTATATGAGAAATGGAAGGAATGAAAGGCTGCCAGCAGTTTGCCCATG  
ACCATGTTTATGCACTCTGGGCATCGGGGAGCCACCACAACGCAACGC  
TATTCTGACGCTCAAAACTGAGGGAGGAGATCGAGGGAAAGGGAATCCT  
TACTTACTTTGGACCGAGTATGAGGCTTGGG

>Sequence 234

TTCTCGTGTCTCTCGTACATATANTCCATCTTTATAAATTCTCTCTGTTA  
TCCTACCTCTTCAAGTTCATCTATTATAAGTTGATCGTATTATTGTCTA  
TATACGATATTTTTACATATTACTATCTCNCNNCTCACAGCTAGTTGGA  
NCCATTTAGAGTCTCTTCGCGGAGGCGGCCGCCCGGGCAGGTACAGTAT  
AGGTTGGTTTTGCTGTTTTGACGCTTTATATATACGTAGACACACATAC  
ACATGTATATATACACACACACATTTTACATATATATGAACTGTATA  
ATGTGTTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAA  
TTCCTGTTATCGTATATGGGATTAAATTTGTTTGCCTAGTTTTTGCCTT  
CTCATTGCTTCTGAATTGGGGCAGCTTTGCCCTCAAGGGAAATTTAGCA  
ATGTCTGGAGACATTTTTTATTTTCATAATTTGGAGGGACATGGGGGAGG  
TGTGCTACGAACCTTAGTAGGTAGAGGACAGGGTTAGTGCTGAACGTTCC  
ACAGTACCT

>Sequence 235

TCTTTCATTTTCTTGTTATTCTCAATACATTCGTTGTATGTGTCGAGTTT  
CTCTTCTCTTCGTCTTGAGTTATGTTGTTATTGATCGACTGTGCGTGATC

Table 2

GGTTTCTTTTCTATGTTAACGGCCACNNCANNNTTCTTTGTTTCGAGTGA  
CCGCGGNGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
ATAATTTTGTCAATTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCT  
GGTCTCAAACCTCTAGGCTCAACTGATCCTCCTACCTCCACCTTTGCCTC  
CCAATTATCCCCAATTGAGAGATGAAAATCTGACAAGCTCTCAAACGTT  
AACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAAC  
>Sequence 236  
GCGAAACTAACCAGTGCTCCCTACACGCTGCTTTCGCGCTCCCATTCCTC  
CCACTCTTAGCTCGTTGCATATCCGACGATACTCTTTGGCGGTTTTTGCT  
TNCNCNTATTTTGTGGGACGCGTGGCCGAGCGGCGGCCGCCGGCAGGT  
ACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGCAGCCCTC  
CTCGACAGGCCACCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTG  
GCAGCCATTGCGACTCCAACTGCAGAGGCAAGGCCAATTTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCA  
TATATGTATTTTGAATCAGTTCTTATAAACAGCTCGATTTCAGTTTTAG  
CTAAATTTATAGTCTAGGTAGTATGTTACATTTGAACTTTGTCTTAAGA  
AAAGTTGACTGTTTCAGATATTTTTCTACTGTAAAGAAATATACTTTTCTA  
TTAAAGATCTGTACCT  
>Sequence 237  
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TTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAG  
GGTTTGTAGAGTACCT  
>Sequence 238  
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GCAAAATCAGAGAGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGA  
CAATGGCAGCCCAATACGGGAGTATGAGCTTCAACCCACGACACCAGGG  
GCCAGTTATGGGCTGGAAGGCAAGAGCCCAGAAATTTCCCAATTGAGAAT  
TGTGTTAGTGGGTAACACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCA  
TCCTTGCCCGGAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACC  
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AGTTGACACACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGT  
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCCAGGGCCTTATGCT  
CTGGCTTTGGTGGTTCCACTGGGCGGTTCACTGAGGAAGAGCACCAAGC  
CCCAGAGAAGATCTTGAAATGTTTGAGAGAGGACTTGAAGTTTCT  
>Sequence 239  
CTCTTGTTCTTCTCCCCATTTTGACTCCTAAACCACTCTCTGCATAACT  
TCCATTGCTTCTTTATCATCCTAATTCCTTCTACTCTTCTGCTCTTATTC  
TTTCCCCNNNCANTTGCCTTGTTCGACTCCCCGCGGTGGCGGCCGAGGT  
ACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAACCCCAAATA  
CAATTAGCACTTCTCTGCTGGTATTCCTGGGCGGTCTTAATTATCTAGA  
GGCCAGGAGGCAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAACTGC  
TGATTAATTCAGTTTCTTAACTAGGCAGAGCAGGTCACTAGTGTATCTAA  
TTCACACTATTAATACACTGTCTTGTGAAGAGTCTGACCTGCCAGAAC  
CCCGTTATGGCTAGCCCAGGGAAGCAGTAACTGCAAGCAGAGAAAAAGG  
GGCAGCTAAGATGAGGCTAGTGGCTGAGTCCAGTTAGGTCTGTTAC  
TGTTCTGTTCCAATAATAATCCAGGATGACTGTTACTCAGATTTCAGTGC  
TATGTAGAAAATAGAATGCACAGCCAAAAACATAATTTGGGGATGACTGG  
CAGCACCTTTTTTCCCTTCTTAAGAGGCTAACTG  
>Sequence 240  
TCATTTTCATGAAATTTTATTCATATTATTTTTCATAAACTCCATAGTTCT  
TTCTATGTCTACTAGTTTTATATTATCTATTTCAACTTCTTATTTTCTT

Table 2

AAAAAATATNANTTGGCGTCTGGCGCCCTCACCGGGGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTGGTATGACTATGAAGGCTAGTGGTCTTTTTAT  
TAGCTATCAAGTTCATTTAACAGACAAAAAATTCAGTTCAATGGGGGCAT  
TAAAATAGGAAGAATTAACAATAGTTTCATTAATCAATCTTTCAGCTGTTT  
CTATTTTATCACAATAACTTTTCTATAATTGAGAGATCCATGAGGAAGT  
CTTGAAGAAGAACGTATGTTTCTTCAATTCCATAAAACATTTCAGCCAAAA  
TAATAAAAGAGGCGCTATTACTTTGTTTTGGGTGAATGATATGCAGGCTA  
GGCTTTGCTGTAGTACCT

>Sequence 241

GCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGA  
TCGGCAAGTGCTCGACGCGTGGCCGAAAAATGCTGCCGAAGAAAGAAATAA  
AAACCTTGAAACATGACGAGAGTGTGTAAAGTGTGGAAATGCCTTCTTA  
AAGTTTATAAAAGTAAATCAAAATACATTTTTTTTCCAAAAAATAAAAAA  
AAAAAGTACCT

>Sequence 242

GATCAGACTGTCTCAGATCAAGGAAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAG  
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGCTTGTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGAC

>Sequence 243

TGGGCCCTTTGCCTCACCGCGGGGGCGGCCGAGGTACGCGGGGTGCTGGGA  
TTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTTCTTTATTAGCT  
GTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGC  
CACACACTTTTTGAAGTGGCCCGGTGAGGGGGGACATAACCATTTCTGT  
GCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGCTT  
GAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAAT  
TCCTGGGACAACAAGACTGGCTTGTGGTTCCATTCTCCAGATCCTTGGGT  
TGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAA  
AGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAAATCTAGTAATTA  
ATGAAGTAATAAATTTCTCCCAAAGGGAAAAAACGCAAGGTAGAACATCAG  
ACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAANAGTGTTT  
TCAGAAAGACTACTAGAAGAGACGAAACGAACCCCTGTGGCTGTAACTTTTG  
AGTGAAAGACAAAAATGGCTCTTCGTGGTCCCAAAAAAG

>Sequence 244

GTCTTTTTAGTAGGGATAAGGTTTACCATGTTGGCCAGCTGGTCTTTAA  
CTCCTGACCTCGAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGAT  
TACAGGCATGAGCCACGGCACCCGGCCCTGGTTTGCTTTCTGAACCATGT  
CAATACAGTACCACCACAGTTGCTATCTCTTGAACATCTTTCAATTAAC  
ATCACCGTCTAGTTTGAGAAATACTTTTAAGCCTGCTGGCCTCCTTTGGGG  
CATTTCTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGT  
AAGCTTTTAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGA  
GTGAACGACAGGGGTGGGCTCCACTTTATCCAGTGCACCTCGGAAGCCGGA  
GGGCCCCCACCAAAAAGAGCAAGGGGAACCCCTCGCCCTCAACAAGGCCTG  
CATCTCCGACTGGAGCTCAAGTATAGCCCAGCGAGTGTCAAGAAACGAA  
ATTCTTCAGGGTGGCGGAATCAAGCCCAAGTCCCATGTTTACTGACCGGG

>Sequence 245

GGGCGATTAGCCCCTGCTCACCGCGGTGGCGGCCCGCCCGGGCAGGTACAA  
TTGCTTGAGTGAGTTTCATGGTCCGTAGGAGGATGACCACTAGCCCAACAC  
CTTCCACTGTCTTCTACAGTCTCGGCCAGCAAGTTTGGAGTTAAGGCTTCA  
AAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGTGGGT  
CTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAA  
AGGGGTGCTCCTGCTTTATGTTTCAGTGTTCATTCTTTATTTTCTTCTGC  
AGCTGTGCAATTCTTTCTTTTCGGTGACTGCTAAACCCCAACTTTTTTT  
TATACCACCCCAAACTTGAAGGGCGGACCCTTTACAAAGTGGCTTTTG  
GAATAACCCCGGGAAGGAAAAATTTTTTCCCCCGGGGTCTTTTTTCTTT

GAACCCCCCAATTTCCACAAAAAGAGGGAGATTTTTTGCCGGTAAACTTA  
CTCCATTTTTTAATGGGAAAATCCGGTTTTGGTTTTTCCCCTTTTTTCCG  
GGGGCAGGGGAAAAAATTTTTTTGGCCCCCAGCCCCGGGGTCCN

>Sequence 246

CGTCTCGTTACACCTCGTCGACTTGCCTTCTGTATGTTACTTATTATTAT  
ATTTGTTACTATGTTTATAACTATCTATCTTTCAGTCCATCATAATAATT  
TGCTTTACCATGTGTATAGTAGTTTAGGTAATCTTTTGCTACNNANTCNN  
GCNANTTGGGGTGTATGTCAGCCTNTCTCGGGTGGCGGTCTGTTGGGATC  
AGCGTAGGTGAGCTGTGGCCTTTTGCGAGGTGCTGCAGCCATAGCTACGT  
GCGTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGCGCGGGACCA  
TCTACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAG  
AATATAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTTCAGCC  
TTCTGCATCTGGATCTCTTGTGGAAGAGAAAAATGAGCTGTCCGCAGGCT  
TGCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGC  
CCTGGGGTTATTGTCCAAAAAAGTACCT

>Sequence 247

GCTCTAAGCTATAACGTACTAATATTTGATCTATTCATATACATTATCAA  
TCACTAATACACACATCAATATACTTACGTATAATACTATCTTAGTTC  
TCTAATAAATTATNANTNANTTGGCGTTTGGCTTCTCCCCGCGGGNGG  
CGCCGAGGTACTCCCCAGCAAATATGCTTGGTGGGCTTGCTTGACTAGA  
TGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTTGTTTGTCTG  
AAGAACGGGGATCTGTCGCTCGCCCTGAGCACTGATTTATCCCTTAC  
TCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTCTGCGGCCGCCGCATC  
TTC

>Sequence 248

TGCCGCGTATATGCANCTTCCCGCGGTGGCGGCCGAGGTACTTNNTTTTT  
TTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTACAGAGA  
CGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAGAAAAA  
CCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGTCTCGCAGCCA  
TAATGAACATCACATAATGAAGTTACTCCTTCCAGATCTATAAACAGGC  
TCATGTAACCTAACTGATACTCAGTAAAAGGGTCCATAATCCAAATTTATA  
TAACAAATGGGGCTTGCTATAAAATCTCTTACATTTTAATACTTACTCTT  
AATAAATCATCTATTCTTCCCTCCTTCTCTCTAAGGCAGAATTCTTACT  
GTTTTCTAGGGCAGATATTTTTTCTATTGTGAGGTGCGACTGGGTCTGTC  
TGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTGTGTTG  
CCAGATCCCGTAAATGAGGGACTGTTTTGCTGAGCTGAACAAAAGTGAAG  
CAGG

>Sequence 249

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTACGCCACGG  
AGTGTGAATAGTGAAAAACCTTCAGCATATGGAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAAC  
CCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCA  
TCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTA  
AAGCCAAGAAGAAGAAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGT  
GACTGTGAGTACCT

>Sequence 250

GGTNTCGTATGCTTATCGCGGGCGGCCGGAGTGATGCCATCTGCAGTTTT  
GTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCC  
GGACTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAAGTGA  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACAAAAAATGCGAGTAGAGGGTTTGT

Table 2

TAGAGTACCT

&gt;Sequence 251

TTATCTCCACATTGATTCTCAATAAACATTTTCTTCGATCAAGAATT  
ATTCTAGTATAATATATATTTTTTGCTTCCGTTGTTATATTTATCACACA  
CAAAAAAATAAATGGGTGTTGTCTCGATAACCTNTCCGCGNGGGCGGCCG  
AGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGC  
GTCTACCCGGGAATCCGGGGTCCCTGACCGA

&gt;Sequence 252

GGGNACGTTGCTTGATCGCNGGGCGGCCGAGGTACATTTTACTACGCAC  
CCTTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTGTGCGTGACATGC  
ACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCCAGGTGATGCTGACACTG  
CTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATTATCCTGATTCTA  
AGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTTACTGGCTCATGTC  
ACATAAATCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTT  
ACATCTTGCTTTTACTGCAGCATGATGGAATAAACCACAGGTATATC  
ATAACAAAAAGAACATGAGTTACCATTTTCACAAAGTTCAGATATATTTA  
AATTAGCCTATTTAATCTTTTTTGGGTGGTGTGAAATGGAGTCTCACT  
CTGTCTCTCAGGCTGGAGTACGTGCTGGTTTAATTGTCCAAGGCGGGTCT  
GGACCAGACAACTTTTGTAAGGGCTGGGCCGTGCTTTGGTGGTTGGAGT  
CGGTCTCCTTTGGCCCTTTTTGGTGGCCGGAATCGTGGCTGGCTGATT  
AACAGTTCAAAAGGAAATTTGGTGGTTAGAACGGCC

&gt;Sequence 253

TTTCTTCGCGCCCGTGCTTTTTGCCTTTCAAAATTTTATTTTCTCTGCTT  
ACAGCTTTTTTTTACATAATACATAATTTTATTTTTTGAATAATTTTC  
TACCCACAAAAAAATTTTGANNAGGTGCTTGTAGCGCNTCTCGNNGNG  
GCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTCTACCGGTAGC  
CTATTTTCAGATTTATTAATAAACACATAGGTAACGAGTCAGAGCTTTGGC  
TAGGAATGAGTTGGAAAAGAACTGAAGGCATAATTCCACAGGACATTAC  
AGTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTAGAAGCATTT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTCGGGCGGCAATGCCAGGGT  
ACCTG

&gt;Sequence 254

TGTATATAGATAGAGCTCACCGCGGTGGCGGACGAGGTAATCATGGTTGC  
TGTAATCTGGCCGCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATG  
AGATCTGGCTATTCTGTCTTGTGGATGGTCAGTCCCCGCGTACCTGCCCC  
GG

&gt;Sequence 255

GTNTAATCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGT  
GTGCAAAATCAGAGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGC  
GACAATGGCAGCCCAATACGGCAGTATGAGCTTCAACCCCAGCACACCAG  
GGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTTCCCAATTGAGA  
ATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAG  
CATCCTTGCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATT  
CCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTC  
GTAGTTGACACACCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAA  
CGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCAGGGCCTCATG  
CTCTGTTCTGGGTGGTTCCACGGGGCGGTTACACTGAGGGAGAGCACAAA  
GCCACGANNAGATCTGAAAATGTTTGGG

&gt;Sequence 256

GCCCCAGATTCAATCTGTGGTGACGGTCGGATACGATGAGGGACTACACC  
GCACACCACCACTTCTGTTTAATGTTTTGAATCTAAACGTTGAGGTGGGG  
CTNCACCATGTTGCCAGACTGGTTTTGAACTCCTGAGCTTAAGCAATCC

Table 2

ACCTGCCTCGGCCTCCCAAAGTGTGGGATCACAGGCGTGAGCCACCGCA  
TCCGGCCTCATGTTCTTTTTCATTAAAGAGAGAAATCAACTATTCAGGAC  
CGGCCCCACCTTTCTCAGGAGTCATTTCTGTTCCGCACAGGCCTGCTG  
AACTGGGTGCTTTATATAGGGAAAGTGGGCCTCATTTTTTGGTCCCTGTC  
CTCAAGCCTTAGGGGCAAAAAAACCTCCAAAATTGAAAAGGGTTTTTTT  
TTTTAAATCGGGAGGGGGGGCCCCCTCTTGTGTGCGCGATTTCGGGGAA  
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCGCGCGCCCTTAAAAAAA  
AGAAACCCCCCGCGGGGGGGATTTTTTATATTTTTTTTTTACCCCC

>Sequence 257

GGAGATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTA CTGACTTG CAG  
GGCCACAAGACCGGCCTTGGCAGCGTCGTTGGCTGATGGGAGTAGAAGCC  
ACAGAGAGTCTTCTCTTGGAGGTACAGTCAATTCTGAGGTTTGGGCGTC  
ATAGACTAAACCCAGAAAAACAGAACATTGGGAAGTCTTCGGAATATTCTC  
TATCTTCTTACCAACGAGTAAGACGTTTTGGAATAATGGGACTTTACAA  
AGGCCTTGAAGCCAAATTGGTTGAAAAAAGGCCCTAACTGGTGGTTTAAA  
AGGGTCCTTGGTTATGAAAAAATGAACAGTGGCCCCCTTTCAATTTTTG  
GGGGTTAAAGGGGGGGCCCCAAACATTGGAAACCCCTTCCCAAAGAAAAAT  
TCTCCAAAATTTTCTAAAAGGGGGGGGGTTTCTTCTCTGGTAAAAGAAA  
AAGAGAAAAANTCTCCTTAATATATTGTGTGTTTCTCGCCCCCAAAAAAG  
ATACCCCCCTTGTGTGAAAAAAAGAAAAACAGGGGGGGCCCCGGGGGG  
GGGGTGTCAAAAAAACCCCTGTACACCAAAAATTTTATCTCCTCTCTGG  
TGGGAAAACCGGGGGGGCTGATATATAAT

>Sequence 258

TTAGTCGTTTTGAGGCCCGGTGGCGGTGCGGTACACGGGCCACGTGACCG  
ACGCCAACATTGGCGCGCCAGTTGCGTCCACCTGCTTGTCCGCAGAGGT  
TCTCATAGAAATTTCTCTTCACTCAATCATATCTACTTACACAAGCA  
GTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATA  
TTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCTCATCCGTT  
CCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCATTGTACCTGC  
CCG

>Sequence 259

ATGTTATATTCGTCTAATAGCTACATTGAGTCGAATCGTATTATGTTCTG  
ATCTCTTTTATTTATGTATTTATTACATGTATCTATCGTATCTGATTACG  
ATACGATTACGTTTTATCCTATCTCTTNTAATGGTGTATGCCCACCGCG  
GTGGCGGCCGGCGGGAGGC

>Sequence 260

GCTCGTTATGTCGTTACTATCTGTGTCTGCATCGTATCGCATTCTCATCT  
ATTATTATTCTATTCTTGTATCTG

>Sequence 261

TCTATATATCTATCGTTCTATATATTAATTATTTATTCTTTGTA CTGTT  
TATCGAATGACTTTAATATTTCTATCTCTTAACTATACATCTGTTTCT  
CTTTATATATAGGTAGCGCGTG

>Sequence 262

TTACTCCACACTCTACTCATTTTCTTCAATTTCAATTTCTGTA CTGTTTA  
ATAGTATTTACTTATTGTTCTATGTTATGTTATCATCATTATATCATATA  
ATATCTGTTTGATTCAACACCCATTANTTTATTTATTTATTATGTTGTAG  
CCGGGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACC AACTGGGA  
CGACATGGAAAAGATCTGGCACC ACTCTTCTACAATGAGCTTCGTGTTG  
CCCCTGAAGAGCATCCCAACCTGCTCACGGAGGCACCCCTGAACCCCAAG  
GCCAACCGGGAGAAAAATGACTCAAATTA TGTGAGACTTTCAATGTCCC  
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGAC  
GCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTACCCACAATGTC  
CCCATCTATTAGGGCTATGCCTTGCCCCATGCCATCATGCGTCTGGATCT  
GGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCCTGACTGAGCGTG  
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Table 2

CGGATCCTCATACTCCCTTGAGAAGAGTTACTAGTTG  
>Sequence 263  
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GCTAGGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTGAGACGTCAAA  
GGTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCCG  
>Sequence 264  
NGCGTTCCGAGCACTACGCGNGGCGCTGCGGGGAAGACGGGNGACGNGC  
GGATCTTCTTTTGGGGCAATGNCACGTTTAATAATGCGTNCCCCGGC  
CTNNAAAGCCTTCGC  
>Sequence 265  
CCGGGCTACCGCGGGGGTGGAACCTCTTCAGCANNNGCTNGGTTCANNG  
AGCTATNANACAANCAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAA  
CAGCCATCATGAGTGAGGTCAACAGAATTCCTGGAGAAAAATCCTTCCA  
CAGCTGAAATGCCATTTACCTGGAATTATTCAAGGAAGACTGNGNCTT  
TTTTATCGAGTGGATAGAGNGCGCAACCAGGTTGAATTTTAAACACTG  
AGTTCAAAGCTGGCCATGTACCT  
>Sequence 266  
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGC  
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ATAGGCAGAGCAGACTGGCAGACACAACAGCACAAAGGAATGCAAGATGCA  
TCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTA  
CCTGCCCGGGCGGNCNGTNGAGCCGCGGGCAGGTACTACCTTCACCAA  
CTTTTTCATTTGGGCATCACAAAGACGAGTCTTCTGATGTTCTATAAGCA  
ATATGTTTATATGAAAGTCAGAAAGTTTAGCGAAAATTCGGCCTAAACAGT  
AATAAATGAAAATGGAATGGAATCAAAGTTCTTAAATAGAACAGAAGGC  
TGGGCACGGGGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAGATG  
GCCGGATCACGAGGTCAAGAAATCGAGACCATCTGACTAACACGGTGAA  
ACCCGCTCTACTAAAAATACAAAAAAATTTGCGCGGGCGTGAGTCC  
GGCCCCCTGGAGTCCAGCTACTCAAGAGGCTTGAGCAAGAAAATGGCGT  
GACCCCGGAGGAGCTTGTAGGAGCCCGGATCCGTCTCCTGCACTTCA  
ACCTTGGGCGACTGACAAGGCCTTTGCGCAAAAAAAAAAAT  
>Sequence 267  
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GGTCGCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGA  
TGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAG  
GAATGGTTTTGCAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTA  
TATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTT  
GGAAGTCTCTGTAAGTCCAATTTGGTTTCGCGGACATAATTGTCCGGATT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC  
>Sequence 268  
AGGTACATTTATATGAAAGTCCTCACTTTCAGAAGCAGAAAAGGAGTAAC  
TAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTA  
CTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAC  
TGCAAGTGGAAGACCTTCTGGCACTGCGACCACTAAACTGTAACCTCAA  
TAATGAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCA  
AGCCATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAATAC  
TAGAATGATAACTGTGATGGCAGGCATCAACAGACCTTTCAGAATAGAAA  
TGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCTTGACAGAT  
ATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTT  
CTCTGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGAT  
TTAATTTTTTGCTTAAGGCNCGCGCCCGG  
>Sequence 269  
AGGTACGCGGGATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTT  
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCA

Table 2

ACCTCGAGCGGCCCGCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGT  
TTAGGCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGC  
TGGGACTTCAGGCCAGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACAT  
TTTCTGCAGTTGCTGAACCAGTAGCAACCAGGTCTTGAGAAAGCCCTCTC  
TTGTGGAAGAATAACAGCCAGGAGGAAAAAGCTTTTATTCTGCAAAGCTG  
GGGCAGAAAGTTCTTCTTTGAATCCCGCGTACCT

>Sequence 270

NGCGATAGGAGCACTCCGCGGNGGCGGCTGCAGAGACGCTTTCGGC

>Sequence 271

GCGCTAGNGCNACCCGCGCNGGCGGCTGGCAGTTGATCGACGACAGCCGG  
GAGGCGNNAGCGAAGGAAGAGACCTTCNGAGNCNGAATAAACTCNAGCG  
CCCCACGNACCN

>Sequence 272

TTGGAGCTCCACCGCNNGGTGGCGGCCGAAGTCCACAGTTAGCTGCAGC  
AAAACGCGAGGCTGCCTCAGGGAAAGGAGCCTGGGTGATTAACCTGTGTG  
TCAATGTCCCACCCGTCCAGGTAACATTTTGCCCCCTGAGGTCCGGGGT  
AATTTAATGGCTGCTGGACAAAACCTCCAAAGTTCTGAAAGATCAGAAAT  
GATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCC  
CTCAAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCT  
TAGCAGAAATCTTGAAGAGCCAGAGATCCAAAGAGCCCTTCGAGCACCCAC  
GCAAGAAGATCCATCGCAGAGTCCTAAAGAAGAACCCACTGAAAACTTG  
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CATTCCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTG  
CTGCAGCAGCGGCACTACAAGCCAAATCAGATGAAAAGGCGGCGGTGCA  
GGCAAGAAGCCTGTGGTAGGTATAAAGGGAAGAAGGCTGCTTGTGGTGTT  
AACAAGCAAAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAAAA  
ACCAGCCCTGAAAAAAGCCTGCAGAGAAAAACCTACTAC

>Sequence 273

GCGGATTAGGAGCTACTACCGCGCNGGCGGCTTANANGACCTGTACNG  
GTTTCGAGCCCGCGNCCAGNCNGGCGGAANGANTTTTNGGCGGTTGAG  
GCGAGGCACCTCCCTGCCCC

>Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATG  
CGCTCAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTT  
CCACCAAGGCAGAAATTCAAGCCCTCATCTGCCAAAACCTACCACCAAAGAC  
TTACAAACGGGAGCTTTTCGACCCCCCATTTGTACGCGGGGGAGGAGCCTG  
AGGAAGAGGGCGGCGACGGTGGTGGTGACTGAGCGGAGCCCGGTGACAGG  
ATGTTGGTGTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCANAAAACCTCCTGGTGCCAGGAAAAATTCAGCACA  
TTCTCTGCACAGGAAACCTTTGCACCAAAGAGAGTTATGACTATCTCAAG  
ACTCTGGCTGGTGTATGTTAATATTGTGAGAG

>Sequence 275

ACCTTATTTCCCATTCCTTGGTACACATAACTCTCTTTGAATACGTCAGAA  
CAGGCTCCGCGGAACCGACTACAACGTCATTTTAAAAGGGGAAATAACTG  
TTTTATCCCCCAATAAAGTGGAATACTACGCGAACAACCTGTTATCTC  
AAAATGCCACCCAAAAACCCCATGAACCCTTAAAAAAAAGGCCCCCA  
GTTTTCCA

>Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCTACCGCACCGGCCC  
TCGGTTCGATTACGCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCC  
CACGCGCTCGATCTTTATGTTATACCGTCACTCCAGTGCCCTAATGA  
ACTATCCCTCACTCACTCCCCCTGGTTCTACCCCGGCTCCAAGAGCCTC  
TCCCGGNNNCCACTAATTTATCCCAAATTCTAGGGCCCCGGCCCCATCAG  
NCCCTCCTCCGCTACCCTGCCTCGG

>Sequence 277

AGGTACGCGGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCT

Table 2

TGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTGAGCTG  
TTCGGTGCCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAA  
CACAGGCCTCTACCCACTTGCTTGAAGCCACCGACAACGATGACATCTAT  
GGGGCTGCCTGGATCGGCATATTTGGGGGCATCTGCCTCTTCTGCCTGTC  
TGTTCTAGGCATTGGAAGCCATCATGAAGTTCAGCAGGAAAAATTCTTCT  
GGCGTATTTTCATTTTGAAGTTTATAGTATTATGCCCTTTGAAAGTGGCAT  
TTTTGTATTACAGGATTACCCCCACCCAGACTTTTTTCAACTCCAACCT  
TTTTCTGAAACAAATGCTAGAAAAGGGACCTGGCCCCGGGCGGGTTCGGTTC  
TAGAAATAAGGGGAATCCCCCTGGGCTGGAGGAATTTCAATTTCAAGGCT  
TTTTAATCCCGGCTCACCTTCTGGGGGGTGGCCCCGGTCCCACAATTTT  
TTGTTCTCTTTAAAGGAGGGGTAAATTGCGCCGCTTTGCCGGAAGAAC  
ATGAGTTATACGGTTGTTTCTCTGTGGGTAATAATTGTGATTTCACTTTTA  
AATGTTTCCGACATGAATATTCAAGCGACGCCCCGGCG

>Sequence 278

GCGTTTGGAGCTCCCCGCGGTGGCGTTCGCCCCGGGCAGCTACTTTCATCC  
ATAAAGGCCTGCAGCTGTTTCATTGATCCTTGACGTTTCATCCATCACCAA  
CTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCTGGTAGT  
CAGGTTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATA  
GGTTCCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAA  
TATCTCTTTAGCCTCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCT  
GACGTTCTAAAGAAAACCTTTGTTATGTATTCTTCATCTCAGCCACAGAT  
GCTTCCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTT  
TTGTAGAGTTCCATCAGTTTCCAGTCCGTCTGCANAATGTTTCAATTCTT  
CAGAAAGAGAAGATGCTTTGGCTCTAAAACTTTCAAGACTGAAGCCCTTA  
GTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGAGAACTGGAACTGGG  
AAGCAGGAGACAGCCAAGCCGTTTGTCTTCTGCTAAATCGACACTGATAG  
ACCGGCTGAGCTCTGTGATGCCCTGGTGAATGGGATGCAGCGACTTCCGC  
CGGTTTCGTTTCTTTCATACTTGCTCGCCGCCGGGATTGCCTNCTGGCTTG  
ATACT

>Sequence 279

GCCTTAGGAGCACCACGCGGTGGCCTCCGAGGTACTACTCTGCACTGTTT  
TTTCTTTCTAATAAAACTTTCCCTGTCGAACCTATACTAGTCTTCTGTAA  
ATTCTTTCTTACTACCTATGACCCGTGAGCCAACCACTTTCCGATGCCAG  
GGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTTTATACC  
CTTCCACTTGGAAGACTACAGAGGAATCTTGCTCTGCATAGTTCAAACCT  
AAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGT  
AAATTTTGAACCAAGGGAAATCATTTAAGAAAGTGTCTGGTATTTTCAAA  
TTTCTGTCAAGTTGTTACATTTGTCTATAAGTAAATGTTTAGGAATAAAGGA  
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AAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

>Sequence 280

TGCGGTGACTCCCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGT  
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ACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAG  
TTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAA  
GGAGTGATACTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATA  
CCAAGTATTGAGTATCTACAAAAAACTTGCAGTAGAGGGTTTGTTTA  
GAGTACCT

>Sequence 281

TATGTGGTCAACGGGGTGGCGAGGTACGCGGGGGGAGACATGTGGAGTCC  
CAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGAAGGGTGGCCCCG  
AAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAAATGAATAAACAGAC  
TAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAAGAAAATGA

Table 2

ACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTCTGA  
ATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAA  
GGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGAT  
GTGGGGATGCAGAAGAATTCAGGACTGGAGGGGCAAACCTCCGATGTGACT  
GAGGCCCCACTGCCAAATGGCGGCATGCTCAGATAGCACCCAAGAATTTG  
GGGAAAAAACTGGTGCTCACAGCTGCCCAGTTAAGC

>Sequence 282

ATTATATTTCTACTGCTCAGTATAACGTAAGTGAACGACAGGTGTACCACG  
TCTGCATCTCTTTTCGTGCGCTAATCGTCTCGACGCGTAGGCAACGTATA  
CGAGACTATAGTTTTCTTTCTTATCTACTTCTATTTCTACACTATATATA  
TTTATCCNTTCTTGCGGATCGACTCACCGCGGCTGGCTGGCCCCGAGGAT  
ACCTATGTTCCACTGCTCAGCAGTGCTCGTAGTACGACTCGATGTATGTC  
AGGCACGAGACAGACCCTCTTCCACTTGTATGTTGTATTGCCACTTCCG  
CGCGAGGATATTCTGATAGGATGCGTCTCTCTCAGATCAACACGGTAG  
GCAACGTTTCTTGCGCTGGTACCTTTTCCACCTTTCCCTTTTCCATTCT  
GGCATTAACACCGGTTCCACCCAACCTGGCACTTAAGGGCTTGTGAGAC  
TTCAACCCCAACCTTCCAGGCCTCCCCATTGGGGTCTCTCTTGCCACCTT  
CATTTGGGTTCTGTTGGGATACCAGAGTTGGAACAAGGGGGGCCAGGAATCA  
AAGCCTGTTCCCTTTTCAACCCCACTCAATTGGGCTCAAGGGGAATGTGT  
GTCCCTCCAGTAAGGGGGTTCCCCAAAGGCCAACAAGGAAAAAAATCTTG  
CAAGCCTTTGAAGCTGGAAGTGGCCACTTGTATGCCTAAGGCTTGAAAA  
AGCCACATAAAAGGGGAGGGGGCTAGGAACCACGCAAAAAAGGTTTTG  
GATGGCCAAGAAAAAGAGGGAAAGGGGGCTCCAGTGAATATAACCCTCT  
GGGCGCAATTCTNTTTTCCAATTTTCCCATTTGGCCCTTGCCCCATTAA  
TTTCCAGGGGCGAAGGATTTAACCTCTGGGTAAAAGGGTGTGGNGNNNGG  
GGGCCAAGNAACCAACCTTTATTGGACACCCTGGTGAAAAAGAGAAGCCC  
TCTATTAAGAAAAATTTCCCCAAAAATTTGGGGGAAN

>Sequence 283

AGTTGTGACACGATTATATTGAATGTTGTCTTCAACGATATAATTTACTT  
CATCAATATTCTAATAATTACATGCTAATATGATATTTATATAATAAATA  
TAGCTAATGAATAACGTACTTGTCTATTTTCTCTAGAGAGCTATCGGGAG  
GCGGTCGAGTACAGCATTGGAATGGATCTGTCTTTGGTAAAGATCAGCC  
TATAATCTTGTGTTGTTGGATATCACCCCATGATGGGTGTCCTGGACG  
GTGCTCTAATGGAAGTGAAGACTGTGCTTCCCTTCCCTCTGAAAGAATGC  
ATTTCGACCAAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGC  
CATTCTGTGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGAT  
TACTGAAAGCAAATGTGAAAATCTTCAAATCCCAGGGTGATGCCTTA  
GATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAG  
CCCATACCAACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAG  
GAGAACTTTAGTTGCTTGACTTCGTTGGATCACAACCGAGCTAAAGCTCA  
AATTGCTCTTAAACTTGGTGTGACTGCTAATGAAGTA

>Sequence 284

TCACATCTCATTCTTGTGATTATGTAGATTCTTTACACTTCGTATCATCA  
CTCTTTACATATATTACCGAATGTGATATCAATGTACTACATAGTTCCCT  
CATATATATATAATTTTTCATAATTTAGAGTGACTCCCGTGGCGGCCGCC  
CGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGTGA  
GGGGAAGAGGCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGACGCTCTTT  
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCTCCTTTCTTGCC  
AAAGGGAGGGGGAAACATACATTTATTTCATGCCAGTCTGTTGCATGCAGG  
CTTTATGGCTTCCTACCTTGCAACAAAATAATTGCACCAACTCCTTAGTG  
CCGATTCCGCCCCCAGAGAGACCTGGAGCCACAGAGCTTTTTTGCTTTGC  
ATTGTAGGAGAGGGGACTAAGTGCTAGAGACTATGTCCGCTTTCCTGAGCT  
ACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTCAGAAGATGTACCCTA  
AGGCAAACAGGGTTCCCTTGCCGGTTAAACTAGGGGATCCCCCGGCTTG  
CACGAATTCTATATCAACTTATCG

>Sequence 285

Table 2

CGTGTTCGGGTGGCGGCCGAGGTAAGTCCCAAATGTTTCAACCGAT  
TTTACCCTATGTTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAG  
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AGTTTTTTTCTTCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGA  
GATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTC  
TCTCTTCTGCCATCTGATAATAGTGTATCCAAGATAAAATCTGTGGGAT  
TATAAACATTTTAAGTAGAAGGCCTGCATGATGTCATGACGGAAAGATCC  
TGAAACAGGAACCTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAAC  
CAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGG

>Sequence 286

GTCTACACCACTGGATTACTATGAATTATACTTTAATCCTAGATTTTTT  
TGTTTTGATTCTCAATAGATGATGTCTCTGAGTTGATTTGAAATATCAAT  
ATATATGTATTTACTATATGTTGTATATATNATNTANTAGAGAGACGCGG  
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCACCTGGGACG  
ACATGGAAAAGATCTGGCACCCTCTTCTACAATGAGCTTCGTGTTGCC  
CCTGAAGAGCATCCCACCCTGCTCAGCGAGGCACCCCTGAACCCCAAGGC  
CCACCCGGGAGGAAAATGAACTTCAAATTAATGTTTTGAAGAACTTTCAA  
ATGTCCCCAGCCCATGGTATGGTGGCCTATCCAGGCCGTTGCCTGTCC  
TCCTCTAATGGCCTCTGGACCGCACCAAACCTGGCCATCTGTGCTTGGGAC  
CTCTTGGAAGAATGGGTGGTCACCCCAACAAATGGTCCCCCATTTCTATTG  
AAGGGGGCTATTGTCCTTTGCTCCCCATGGCCCATTCATGGCGGTTCTG  
GGGATCCTGGGGCTGGGCCCCGAAGAATCTTCAACTGGAACACNCTTCAT  
GAAAAGATTCTTGACTGTAAGCGTGGGCCTATTTCCCTTTCCGGATAACT  
AACCTGCTGGAAGCGGTGAAGAATTGGTCCCGGGAACATTCAAAGGGAGA  
AAACCTGGGGTTAATGGTAAGCTTCTGGGACTTTTGAAAAAAG

>Sequence 287

GATGTGAGCTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGA  
TCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACA  
TTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGA  
AACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTG  
TGTCTTGTCTTATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGAT  
CACGGGACTGTGATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGA  
TGGTTGAGAGAGGTGTGTTTATCTATCGATCATCTCAGAAGGTCTTAA  
TTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGAT  
GGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 288

GTGATGACCCGCGCGCGCGGCGAGGTCCCTGTACTCCAGGGCACTGGCGG

>Sequence 289

GAGATGCTATGAGGTGGCGGCCGATGACCGTCATTGTGATGGACAGACTG  
GCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAATCCGATAATTT  
TTCTCATAACCTGAGAGGAGTTATCCACGAAGTTTTGAATTTTTGTTTT  
CCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAGAGTTTCCTT  
TGTAAGTGTTCCTTTATTGAAATCTATAACGAGCAGATATATGATCTACT  
GGACTCTGCATCGGCTGGACTGTACTTGGCCCGGNATTTTGAAAAATGGG  
GGACCATTAAGCATAAAAGGCATTTGGGGCCTGGGGGACAATGATTTA  
TACTTTCCACGATTTAGCATCTCTAGCCCACCCTTAAATAAACTGTGCGA  
CCTCACTTTTGGACAGCCAAGAGCTTACGATTAGTACCTCCCGGAAACCC  
CTACTATACAGCGCGGTGGGCACCTAAAGGATGGTATTATTGACCGAA  
ATTGGGGGGCTGCATCCCATATTGATCTTCAATCTATTTCG

>Sequence 290

ATCTATACAATACATATTATAAAATAAATGGTGTATATATATTGTTATTAT  
AACATATTATAATTTTTTTTGATAATCTAATTGATAGAGTTATCAAAAAT  
ATATATCTTAATTTATTTAATCTATACTATTATATTAAGATACTCCGGG  
TGGCGGCCCGCCCGGCAGGTACGTCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAGAACTCCTTGAGAAGTTGAACCTTGCCA

Table 2

GGGAACTAAAAACCCATTGAAAAGAAGGCTCTGAATCCCTTTTCTTTGCA  
CTATCTCTTGGCCCTGACCTTTAGACGGGATATGATAAACCTATCTGGTG  
TCTTAATGGAAAATCAACCAATCGAAAAAGGCCATTGGGAAAAATCTTTT  
AATAGAAAAACCTATAATTTCCCTTTTCTATTTAAAACCGGGAAGGAAA  
TATGTCAAAAAATCCCCCTTTTATTACTCCCCCTCTACAATCCAAAAT  
GGATGGGGGAAGATCTCTTTAAACCGTTCTCAAAAAAAGTAGGGTGATC  
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>Sequence 291

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>Sequence 292

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>Sequence 293

GAAAGTGGCTCCCGGTGGCGGCCGCCGGGCAGGACGCGGGGACATTTCGAG  
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CAAGTGAGAGTCGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGA  
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>Sequence 294

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>Sequence 295

Table 2

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CCACGAGAATATATAAGAGCTTTAAATGCTACAAACTGGAACGAGTATT  
TGCAAAACCATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
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TCT

>Sequence 296

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GGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACA  
ATGAATAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATT  
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CAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTGTTAACAATAATGCTG  
ACTCCTATGAAAGAATTATGAGTGTGGAAAGATGAACTACCAACACACGC  
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>Sequence 297

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>Sequence 298

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GTGGCGGCCGAGGTAATCCCCAGCAAATATTCTTTGTTGGCTTGCTTGAC  
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>Sequence 299

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CCTTCATTTTAATCTAAAAGCATTGCCCTTCTATTGGTATTAATTCGGGG  
CTCTGTAGTCTTTCTCTCAATTTTCTTTTAAATACATTTTACTCCAT  
GAAGAAGCTTCATCTCAACCTCCGTCATGTTTAGAAACCTTTTATCTTT  
TCCTTCCTCATGCTACTCTTTTAAATCTTCATATTTCTCTTAAATCTT  
AAGCTATTA

>Sequence 300

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ACCCTTCTTTTCAATTGTAGCAATGATCTCAACACGTGGACAAAATTGGC  
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GCTAATGGTCTTGACATGGAACCGGGCCTTAAATTTGGCATTIT

>Sequence 301

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TGACTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGT  
TAGAGTACCT

>Sequence 302

GGGATTGGAGCACCGNGGCGGTTGGGGACCACGGAACTGCATGNTCA  
GGACCCACAGGAGCGACCCTGAAAGGACCATTATTCGCACAGAGCTGCAA  
ACAATAATACATGATATAATTTTAGAATGTGTGTACCTGCCCC

>Sequence 303

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TACNGNNGCCGAACACAAGGAGANCGA

>Sequence 304

TCGCCCCGAGCTTTCTCTTGTCATCTTCTCCCGCTGCTGAAATTTCACTT  
GCGGGCGCTGTACCTCAGGACCCCTCCCCCGCTACGCTGGATAGCCT  
CCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGA  
GACATCTCGGCCGAATGCTGTCAGCTTCAGGAATCCCCGCGTACCTGCC  
CG

>Sequence 305

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ACCCAGCAGCTTTATCAAGCAGAATTCCACCTGTATTTCTTAAGTTGCCA  
GAGCTGAGTCTCATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAA  
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>Sequence 306

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CTGGTCTTGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGT  
CGGGTGCACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGC  
GCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTCAA  
CTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGT  
TGTTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCA  
ACACAGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATG  
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>Sequence 307

TGAGCCCGGCGCCANATCACCATTAATCCCTTTAGTCACCTCAGAGGCT  
TGTTAATGCTTTCTTTGTAAATTAGGCTATATCTGGTATCTGTATAATATC  
TTCAGTICTTCTTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCT

## Tabl 2

CAGGCGGCTCCGGCAGCGCTGGACACAGGAACTCCTGGGTCCCCGACTC  
CGGCTCTCCTCTACCCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAA  
ATGGCGCCGGAGGTCCCCCGGTACCT

>Sequence 308

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TCANGCNGAGCAGCCCGAAANCNNGGAACCGGCCNCNNGNNGTTCNN  
GNNGAAGAACGGGCNNANCCCCAGAGAGAGCCAAAGNNACCCGGCCCGC  
NCNAAGAAACAAAGCGGANCCCCCGGGCCGCGCAGGAACNGCGANAACACA  
GGCCCAANCTTTTCTTTTGTGTTGGGGGGGCGCGCGNACCCC  
CAGCNAAAAAGAACCAANAAGCCGAGGGGNNGAAGGGGAGCAGCNCNN  
GGCGNAAANCATTGGNCAANAGCNNGCCNCCNGGNGANGAAANNNGCNA  
CNCCGCGNCACAANNCCACACNAACANNACCGAGCCGGGAGCANNAAG  
NGNAGAAGCCCCGGGGCGGGCCCAAGGAGGGGAGCNAACNCACANNNA  
NNNNGCGNG

>Sequence 309

GCGTTTGAGCACACCGCGNGGCGTTCGAGTACTTACGAACATNCNNAN  
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CTCNNNATNATCGAGNGCCAGAAACCTTTACAAGATGGTAAAAA  
ACAGAAAAAGAAAAAACAACCAAAACAAAAAACTTTACAACC  
ACAGCTAATGCAATTTTCCATTGTTCCCATTTTTCACAACTATTG  
GGNGCAAAGCCCATTTTTCATGCATCTAAATGATAGATACAGGCTAT  
GAAATTCTTTATTCTATTGTAGCAGCTTATGCAGGTGCAGCCAAACACA  
AAGCTTCAGGACAAATTGTACCTGCCCCGGGCGGCGCTCT

>Sequence 310

GGCGTTANGNGNCNACTNCGCGNNGGCGACTCGANGNCNGCATCTAAGC  
ACGCNACCCGNGGACAAGAGCAGGNGGCCCTAGNNNGACNGTNTTATGCT  
GCNCCGCGANGCANGAGGCNCNGCACAACCACNACATGCAGAAGAGCCGC  
GCCCCGCCCCCGGAAAAAGAGNGCGA

>Sequence 311

GCGCTTTGAGCNACANCGNCGGNGGCGGCTGNNGCNCGGTACTCNGAG  
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CCAACAAGCCGCGGGGCAAAAGGNCCNCGNATTT

>Sequence 312

GCGCTCGGAGCTACACCGCGGTGGCGCTGCCGCGCCAGACTCTTGAGAA  
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AGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACATCAATAAA  
GTGTTTAACTCCTCATTTGAAAGATGGTGTCTCGGATTGAATATTGAAG  
AATTAATAGAGAACTTCAGTCTGGAATGGAGGTTATGGATCAGATTTGT  
GATGTGAGAAATATCTGACATAATGGATGTATATGAAATGAAACTATCCAC  
ATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGAAACAAAACTC  
TAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAAGA  
ACTCAAGC

>Sequence 313

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AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
AATTGTAGACCTGTCTTGTATGAAAAAGCAATGTGATAGTCTTTAAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAAC  
CCCTCTTGGTATTGTTTACCTAAAAGGAAGAAAGTGTAGGAAAACTGATA  
TAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTA  
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AGTAGGTTTTCAAAGAAAAAGAGA

>Sequence 314

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Table 2

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TGCATGAATTGATTAATTAATGTGCGAGAGCTGTAGATGGCTTTTCTCAA  
GGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTACCTTTG  
TGTTCCCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCC  
CGAAGATGGCCAAAGACAACCTCAACTGTTTCGTTGCTTCCAGGGCCTGCTG  
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GTGCATCT

>Sequence 315

GCGATTGGAGCTACTCGCGGTGGCGGCCTCCCGGGCAGGACCCCTTAGCAT  
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AATTGTAGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCTTTTAGTAACC  
CCTCTTGGTATTGTTTACCTAAAAGGAAGAAGTGATAGGAAAAACTGATAT  
AAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTAT  
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>Sequence 316

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
AGCTCGGGCAGCGAGAGGGCGGGCTGGCGTTGGAGAGGGAAGGGGGGGGG  
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGCAACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCCTTAGTGTTCCTTGCATTTTGGGACAGAATGGAATCTC  
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AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGC  
CTTCTGATG

>Sequence 317

GCGTCAGGAGCACACCCCCGTGGCGTTCGCCCCGGCAGGTACTCTGCAGA  
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CCAGAAAAATGCCCTGGCAATCATCAAAATCACAGTTTCCAACATCAATA  
AAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGA  
AGAATTAATAGAGAACTTCAGTCTGGAATGGTTTTTAAGGATCAGATTT  
GTGATGTGAGAATATCTGACATAATGGATGTATATGAAATGAAACTATCC  
ACATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAAAC  
TCTAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAA  
GAACTCAAGCTGAAACAGA

>Sequence 318

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGA  
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GATGGTGTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTGAAGA  
GATCTCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAACTTTTCT  
CTGTTATGGTTCAATCTGGGAGCGCTGTGGTGGTCATTATTATGCATGT  
ATAAAGTCAATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACAC  
TGTTCACTAGCCTTGTAGAATAAGTCCCAGTGAAGTGAATTTCTGCAGA  
ATCTTCACTGTTATATA

>Sequence 319

AGGTACTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAAT  
GACCCCCATCTCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATGGCAAGA  
GATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTG  
GAAGGCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCAT  
TTTCAGCCAAAGAAAGGGCACGTTCAAATGAGGTCAGAGTCATATCATAC  
TGCTGGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTT  
ATAAATGCCCATCTGCAGCAGCCGCTGTAAAACCGGAGAGCTATTTCTG  
GCTGATCAGAATAGAAGTGGTTGCTTCCAATGCATGCGAT

>Sequence 320

## Tabl 2

GCGCTAGGGGCAACCCGCGGNGGCGGCTGCCAGGCGTNGAACGNGCACCN  
NCAGGAGACGCNCGNAGCCNCGCGCCGTGCNCCGGGGCAGTTAGCCGAA  
GAAGCGGCNCACGCCNCCAGAGCCACANCATCTGTGGNCGAAAGAGAAG  
CCCAGCGAGAGAGAGGNGNAGGAGGCCNGCAGGNACCN

>Sequence 321

CGGGCTTGAAGCNNATNCGCGCNGGCGGCTGANAAGCTCGTCGGNCGCGC  
ACAAGCGGAGNNAACCGAAGAGGGGGCTGAAAGNACGCGTTANCCGGACC  
CACCAGNNCCNGNCCAGCGCNGCCGTTTTCCNGAGGGGGCACNNCC  
CGCAAAGGCNGGAGNGCAGCGGCACAANCCCGGCNCACGGCAGCCNNNGA  
NANNCNGGNCNCAGGNGACCAGCACCTTTTCTTTTTTTACCTAGAAGNNG  
CCAAGCCACCCGNCACAAAGCANACAAACCGAAACGGGCGGGGGGAAGG  
ANCCAGATGNNGANGCCAGGAAANGGGANGAAGACCAAACGNGCCANGN  
NNCAGAACNAGAGAAGACCCNCGGAAAGAAGAACCGAAGANANNANACA  
GANACCAGANAAAGCCCAANNACAAAGAAAGCANA

>Sequence 322

GCGTTAGGAGCTACACCGCGGNGGCGTTTTGGGGACAATACTTACAAAG  
ACTCCCGTGACGAAAACACAANNNGNCTTGCTGGCACATTGACCCNAGAC

>Sequence 323

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GGTTATTTTCTTTATCATTGCTAACTGATGACTTACCATGGGATGGGGT  
CCAGTCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTTTGGAA  
AGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCG  
CACCAGGTTGTCCGTGTAGCCAGCAAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCC  
CG

>Sequence 324

TGATGTCGAGCTCCCGCGCTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTT  
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TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG  
AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC  
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TGAACATATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGGGGAAGGGTT  
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TAAAAATAATGGGGTCCCCCGCGGGTGGGGGAAATTTTTATTAATAAC  
TTTTTTTTAACCCCCCTTCCCTCTAGGGGGGGGGCCCCCGCCCCCATTT  
TTTTGTTTCTTTTGAGGGGGGGGAGATAA

>Sequence 325

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AGGCAAAGTATCCTGCAGAATCACCAGATTATTTTGTTGATTTTCCTGTT  
CCATTTTGTGCTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTT  
AATAAGCATTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCCG  
GTCGTTTGTATATTTATCTTTCTGGTACTTACTCTTTTTATCCATTTT  
ATTCCATCCTATATTATTATCTATTTATTACTTAATCCATTCAATTCCTT  
TTAGGGCCTCCTAATTTCTCAGTATCCTGCATATTCGTTTCTCTATTT  
TTCTTTGTTTATCTGTCTCTCTCTCTCTACCTATACACTCTCTTTAC  
ATCTTACTTTATAACATCTTTCTATTCTTTTCTTATATCTGTATGACTT  
CTTCAATCATTCTCTC

>Sequence 326

TATGATGTGAGCTCCCGTGGTGGCGGCCGCCCCGGGCAGGACTTTTTTTTT  
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT  
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG

Table 2

AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC  
CTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTAGTT  
TGAACATATGCAGTGCAAGATTCCCTCTGTAGTCTTTCCAAGTGGAAGGGTA  
TAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTTGCA  
TCGGAAAGTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAATTTGTA  
GAAGACAGTATTGGTTCTAAAAAGAAAGTTCCTTGGTTCGT

>Sequence 327

GCTGCCAGGAATATTTTGATAGGCCAAGTTTGGCCCTTTTTAAAAATTGGG  
ATCCCCCGCGGGGGGAATTTTGTTAAAAAGTTTTTGATACCGGCCCC  
CCTTAGGGGGGGGGGCCCGCCCCCACTTTTTTTTTCTTTTTTGGGGG  
TAATATTTCCCTTTGGCCACATAGGGGAAAAAATGTTCTTGGTGGTGTA  
CTTGTTAAATTTCAATTCCCCTCACCATTCACACAACCTTTCTTCCCG  
GGAGCATTAAGGGGTAAGCCCCGGGTCCCTAATGAGTTTAACTA

>Sequence 328

CCGCGTCCGCTCTAGTGTCACAGACACTCCTGGGTTTGGAAATTTTGTTG  
TTCTCTGTCTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGGCCTTGGCACAT  
GTTTCGTTTTGTGGTTGTGGCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTGTCAAGGGCTT  
TTGGGTGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGTCCCTGGTGGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTTGGGGCCGTGGC  
TACTCACTAGCTTGGATGGGCCCCTGTTGGAGCCCAGATCCTTGGTACCT  
TCACTGGGTG

>Sequence 329

AAACTATACTCCTAGTACTATTCAATTTCACTATTATTGTGTAATTATATT  
AATTCAGTTAACTTTACTCTCTAAATACTTCTATAAAATACTATCTTCTAT  
TCATATTCATAATTTTATTCTATTTATTATAATAATTTATTATATAAA  
TTTTTCGTTCTCGTTGCGCCGACAGATACTTTACAGGATGGCATTTAATAC  
AGATATTTCTGATTTCCCCCACTGCTTTTTTATTGTACAGCATCATTA  
CACTAAGCTCAGTTAAGGAGCCATCAGCAACACTGAAGAGATCAGTAGTA  
AGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCAGA  
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ATTAAGAGACAGTTTTTCTATGGCATCTCCAAAACATGCATGACATCACTA  
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TTTTGGGATTACTCCACATCTTTGTTTAATTTCTTGACTAATCAGATTT  
TTAATAGAGTGAAGTTAAATTGTGGGTCATAAAAAGCATTGGATTGACAT  
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>Sequence 330

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ACTTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTT  
CAGTGTGCTTCTGACTTTTACGGAAGTTGGCTTGTTAGAAGGCTGAAAGAT  
CGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGCTTTC  
TTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTC  
ATCCTCAGAACTGAGAATTCTTCATCACAAGCTATCCGCTTGTCTGATG  
CTCGAATAGAAATCTCTGTCTGGATCTTCTCCATCTTCATCTOACTG  
TCTTCATGAACAGCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGC  
ATGAGGTAACATGCGCAAAATTTCAAACAAACGCTGTTTTATCTTTTCCA  
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TGAAGTCTGGT

>Sequence 331

TCTGATGTGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAA  
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GTGCTTCAAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCT

Table 2

GGGTTCTCTGGTGAACCTTAACTTGTACAGCAGCAGGTGATCAAACAGCC  
AAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCA  
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TCTGTACCTGCCCCG

>Sequence 332

TGATGGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTG  
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AGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTAT  
GGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGG  
TACCT

>Sequence 333

TTATATGATCACCGGGTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTG  
AACGTGCTAAAATGGGAAGGAGCGGTGTTTTGCTGATCTGTTAAATTCT  
TAGTGAAGTTTCTTTGATTTCCAGTGGCTGCTGTTGTTTGAAGTTTGGTTT  
GGAGCAAAACTGAGGTAGTCCTAACATTTCTGGGACTGAATCCAGGCNNG  
AAAAAAAAAAAAAAAAAAAAAAAAAAGGTACCT

>Sequence 334

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TGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGTAC  
CT

>Sequence 335

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AGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCA  
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GCTTTCTCAAACCATGTTTGGACCTGCTTGGGAAGCTCCCTCTGCTCTCCC  
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GGTACCT

>Sequence 336

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TCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCTCGCTGGCAACA  
AGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTA  
GTAGTTCTCAATTTTATGGGAACTCCAGACCTGTCAGCAGAACAGCCAG  
AACTACAGGGCCATGGCGGAAGGACTCTGGAGAAGGGTTTTCG

>Sequence 337

GATATGTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGT  
GTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGT  
GGATCCATACAATACTCCCGCTGGTGGAAATCTGAGAAGAGCCACGTGCT  
GGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCC  
TAGATTGGTCCACTGGGAAAAGTGAAGGGCCCGGGACCAGCCCTTGAAG  
ATCATTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGA  
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AGGCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTCA  
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>Sequence 338

Table 2

GGAGACGCTCGATTTCGGCGGCCGATGACGTGACCTCTCTGGGAAGAAGTT  
ATTCTGCAGGCACACATTAGACCCAGNGATGACAACAACNGCACATCAAA  
AGGCGGGGGGAAGATGACAGACGGTGCCCGCCAGGGCGGAAGAGACCCA  
CCTGGGTGCCTGGGCCCCGACGACAAGGGGGACCTGCCCGGGCGGACGCAC  
GAGAACTAGAGGACCCCCCGGCTGAAGGAATGCGAAATCACGCCAAGCG  
AAACCGGCAACCCCGAGGGGGGGCCCGGACCCAGGGGTTGATCCCTATA  
AAGAGGGGGAAACGCACGCTAGGGGCGAAACACGGGCAAAGGACGGCTCC  
CCGGGCGAAAAAAGGGGAACCCGCACAAAAACCACAACAACATACCGG  
AACCCGGGAGCCAAAAAGGGGAAAAACCCGGGGGGTGCCAAAGGAAAGG  
AGGCCAACCTCACAATAAACTGGCCCTTGCCCCCACAGGCCCGGGTTA  
TCAAAAGGGAAAAACCCCGGCCGTGGCCACCTGGCACAAGGAAACCG  
GGCCAAAGACCGG

>Sequence 339

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TTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATAT  
TAGTGCAGAAAAATCACATTCAATAAACACAAATTGTAGAAGAGACAGAT  
AAGTGTGTTTGTACATTTTACACAAATATAATTTGATATTTAATTAAG  
GGATGATGAATCACATTCCATGTAAATAATGATTTATTCTCTCAGTAATA  
GAAGGATTCTCTTTTGGGTATTGAGGGGCTTTTGGGGTTATTTTCAATA  
CAGTGGCCGGTTTAAAAATATAAGGGAATTTTTTTTTTTAAGAAGCTTT  
TCCCTTTCCAATTTTTTGGGCAATTTCCCGGAAAAAATAATTTTCCC  
GGGGATAAACCCCCCCCCAGGTGGAAAAAACCCCTTTTGACAAAAA  
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AACCCCTTTAAGAGGGGGGGGGGGGGGGTTTTTTTGTTTTAAAAAAG  
TTTTTTTTAAAAAATAATTTTTTTTTTTTTTAGAGGGGGG

>Sequence 340

CCGGCAGGTACGCGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
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CAACTGTTCTGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT  
GGTTGTTGCGGCATTGCCTGATGGGAGTGATCTTTTTTGTATCTGACCA  
ACACAGCCTCTTACCACTTGTGGNGCCAACGACCACGATGACATCTAAT  
GGGCTGCCCTGGAACGGCATAATTGTGGCAATTGGCTTTTCTGGCTGGCT  
GGTCTAAGCAATGGAAGCCTTATTGAGGTCCACAAGGAAATTTTCTGGGC  
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TAACACAATACTATAGAAGGGACCCCTTGGGCGCTCTAAAAACATAAAGGG  
ATCCCCCGCGCTGTTGGGAATATTTAAATTAAGCCTTATTTGATGACC  
CGCCGAACCTCAAAGGGGGGGGGGGCCGCGGACCCACATTTTGTGGC  
TTTTTGTGAGGGGGGTAATACCCCTCTTTCCGGAAAAATAAGGGAAA  
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GC

>Sequence 341

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NAATACTGCCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCT  
ACTCTTGCCCTTAAACTTTTCTCACCACACCCACCTTCCCACATGCATGA  
TATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGT  
GCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAG  
TGATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTATAGTA  
TACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGT  
TCGGTTTCTCACTGTTATCTTCCTTTCTATAATTAATTTATTTAATCT  
ACAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAAATTAATTA  
ATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAAATGTT

Table 2

TGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAGC  
ACATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTACCT

>Sequence 342

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CTGTCATGAAATTTAAACTTTTCATTATAATACTGTTTTAAGAACTTACAG  
CATCTGCTTTACAAATGGTGTAGCTACATGTCGACACAGCATCTTAGC  
CAGTTTTCTTTTGGAAAGTTCATCTGATGTCATCTGGAACTGAGTAGCAC  
ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGC  
AATCTAGGGTTCAGAATAACCATAAACATTAAGTGTCACTCCTTGAAA  
ATGACAGATGTATGCAAGTTTAGTTCCTCAGAGCAATGAAATTCCAATG  
AAATGAACTACTACTTCTCCACTTTCCTTGTCTATTTTAATAAGACAA  
AGAACATCACCATAATTAAGTTGAAGTACCTGCCCG

>Sequence 343

CCGGGCAGGTACATCAGAGATGCTCACACATTCCTTTGAGTAGTTTAAAAA  
CTCATTTTAACCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAAT  
AGCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGC  
CACAGACTCACTTCTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGT  
TCTTAGAATCTCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATA  
AGTGGTGGCAGGAAGATTGGGAGCCAGATGATACTCTTTTCTCTTAGA  
GAAACTCTGTGGAAAGCTCTGCCTATACTGTGGGAAATAAATCTAGACGC  
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TGTGCCAACTACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGT  
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AGTCTCATAATTGTATGGTAAACACTAAATGGTGGTATGGATCAGTTGC  
CATGGAAACACAGGGCGGNGCCCTCAGCTCAGTTTAGGAAGGAGCAGAT  
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CCCACAGCAGAGGAAGTACAACAGGCAGGCCT

>Sequence 344

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CTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCTTGG  
TTCAAAATTTACCCCTTCTTGTCTTCTTGTCTTTTTCAGGTAATTAATC  
TTCTCTTTTAGTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTC  
CAAGTGGAAAGGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGT  
GTCAGAACCTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGT  
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>Sequence 345

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GTGCTCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGT  
TTTGCACAGCAGAGAGCAAAAGTCCGCTTGTTATTCCACCCGATACGTGAG  
CTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
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GTTGCCCTCACCTTGACACATGCGGACCCTCCCCAGGCT

>Sequence 346

GGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAGTCTGAATG  
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CGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCA  
TTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCC  
CTTGATGTCTACAATATCACCTTTCTTATAGATTTCGCATATATGTGGCCA  
AAGGAACAACCTCATGTTTTCTAAAAGGCCTAGAGAACATATATCGGGTG  
CCTCTCCTCTTCCCTTTGTGTTCTCATTTTGGCGAATTACTGGAAGAT

Table 2

G

&gt;Sequence 347

CCGGGCAGGTACACGCCCCAGCTAATTTTTTTATGTTTGTAGTAGAGACG  
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CTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCA  
TACCTGGCTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATT  
TTAAAGCAAATATCAGACATACCCTTTACGCGCTCACACTTCAACATGCG  
GCTTGTGAAATTCGTGCTCCACTCCAGCAACTGCTTTCAATCGGAGTTC  
CATCCTCCGCGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACTA  
CCCAGTTTCCGAAACTTTTCGAGGGAGCGCTTTGGCACCACCTTGAACGG  
GGAACGGGTGCGTAAACCAAACCTTGAACGCCAGCCCCCGCGTACCTT  
GGCCCGTTT

&gt;Sequence 348

AACGATGACTACCGCGGTGGCGGCCGCCCGGGCAGGTAATTGACTGCTA  
CAACTTTCAAATCTTCTACTTACTCCCTCTTCTTCAGCTTCACATCTGG  
GAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAA  
GCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCAACCTTA  
CCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGCTTTC  
TCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAA  
GCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGT  
GTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTACC  
T

&gt;Sequence 349

GAGTCGACTCACCGCGGTGGCGGCCGGAAGGAGAGAGGTGCTGTGCTGT  
GTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTT  
ACATCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTT  
CTTAGAGGGAAGAGGTTGGAAAAAACCATGACTGTATTCAGGAAGGCACA  
TGAAGTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTTCGT  
TGCTGTGTATAACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGA  
ACTGAATTTGTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGT  
GCTGATCGAGTCAAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCT  
TTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTCCTGGGCA  
GAGTGGAGTGGAAGGTGCCAAAAGCCAAGAAGACACTGAGGCAGTCTTTA  
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&gt;Sequence 350

GGCGAAGTGAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCGTGCTA  
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CAGAGTTTCCTGGTTCACGTGGATGTGAGGATCCTTTACTCCAGATCGCC  
AGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCTGGGTTTATTCA  
TCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAG  
AGAACGTATCCATGTACCT

&gt;Sequence 351

GTAGATGGTTGACTACCGCGGTGGCGGCCGCCCGTGTGGTCTTATTA  
TTGCCCCGTGTTTCTGGATGTGAATGGATTACAATGTATTTTTTTAGGGA  
AATCCTATTATTATCAATGTGACTCCACGGGGGAGTCCATGGTGATGATG  
ATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAACAAGTT  
TAAGACTTTATGAGAGAAGAAAAAATCACCAACAAGAATTGTTTGAGG  
AAAAATCATAACTATCCTGTGTTCATTTTTTTTTTATAAACAATAAGAA  
AAAGTTGTTGGATTTTTTTTAAATGATTCTTTTTTGGGGGAGGGAATTT  
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CTTGTAATCTGTGGATATCCCTGGAGCAGGACTGATGTCT

&gt;Sequence 352

TGATGAATCGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTTGGTAACA  
ACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG  
TGGAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCAG

Table 2

GGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGCCAAATAGAA  
TGAGAACCATATTATGTACCT

>Sequence 353

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TCCTGGCCCCAAATCTCCTTTTCTTACTTTGGGCATTAAGTCTGTTGA  
GGTCTCACAGCCTGATGGTCATTATCCCTGAATGGCATAAATCAACAGGC  
TGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAACCCA  
TGACAGATGAGAGAAGTTAGTACACTCTCACTGAAGTGGGGATGTTTGAC  
TTAAAAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAG  
GCTACGAGAGGCCATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTG  
ATCCACCGCACTTGGGGCAGGGGGTGCATTCTCTGTGCCCTCTCCTGAGTC  
TACTTTCTGATCATTGGTTCTCCAGCTCACTTCCATAATGTCTCTCTA  
GGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCATT  
GCCTGTGAGGGAGACCAAGCTTACCACCAAAGGCTTTTGCG

>Sequence 354

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TATATAAATCTTTACGTGTTAATGGAAAGAAAATTAATTCATTCTGTTAC  
TCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAGGGGC  
AGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACA  
GATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCT  
CAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCAT  
GAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAAACAAAGTCAAA  
ATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCATCAGCTCAC  
CTTTCTTCTTATCAGAATCCACAACCTGCTTTTTTGGTTTTTCACAACAGTG

>Sequence 355

GCTGAGATGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTG  
CCAAAATGACGAACACAAAGGGAAGGAGGAGAGGCACCCGATATATGTT  
TCTAGGCTTTTGAAGAACATGGAGTTGGTCTTTGGCCACATATATGCG  
AATCTATAAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAA  
AGATTCAAGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAAATTC  
CTGAATTGCTATGTGTCTGGGTTTATCCATCCGACATTGAAGTTGACTT  
ACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTT  
TCAGCAAGGACTGGTCTTTCTATCTCTTGTACCT

>Sequence 356

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TCTGCGTCCGAGCAGCGAGAGAAGAAATCACTCCATATCCGATGAGAGGA  
AGGGTGGCAGAGAGATGGTGTCTACAATTAGAGACATTTCTGACTCCACC  
TTAGCCTAAGCAAACCTTTATGTACTGAGTAACATTTGAAGGTTGTCTTT  
AATGGTGGGGGGTGTTTTTTCTTTTTTAACTACAGTGCTTGCACAAGAG  
AGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGC  
CTGGGATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCCTCCCC  
ATGTTTGATTCAAATTCATGAGTGACCTACCTTTCCCAGGAATGGGAC  
TGAGAGGGTAGTCTTCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTGAG  
GCTGCCCTTGGTGGTTGTGCTTTTGTAAAGTTTCTTTCTGCACTTCGAC  
TTACCTTTGAATCAGAAAGCAAGCCCAGCAGGTGAATGAGGGATGTCTGT  
G

>Sequence 357

GATGCAGTTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACCATCTG  
ACTTGGCAATGTAAAGACACACAGTTAGTGTGGGGCACAAACGTGGAATA  
TTAGGAGAGAGCTGGTTCCAGCACCAAAATCCAGAGTCACTCGGGGAAGGA  
GGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAA  
CATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCATTTTG  
TTCCCCATTCTCTAATATGTACCAATTCTGCTGATACATTCTTTGTAA  
TCTCTCCATCTATTTTAATCTGTTATTACCTGAGCTACACAAACATTCA

Table 2

TCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATTAAGCCCTC  
CTTGTGGAGGCATTACAGTCTGGTTTAAATACACAAACCAACAATTATA  
ATACACAGGGATAAAAAAGTAGAGGCACTTATTGCATACCTGTACCT

>Sequence 358

TGTACGATGAATCGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTAG  
CAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTC  
TCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGATCTTGGAGAC  
CAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGCTGTGGTG  
GGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCC  
CTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACC  
AAGTCAGGTTTGGCAGTTTTTGTGCTGCCCTTTGCCCAAGGCTCAACAAAA  
CCAAGCTGGTCCCCTTGCTTGGTTGGGTCCCAACCCAGGGGGGATTGGG  
GTGGGTGGATAAGAACCACCACTTGTTTTTCCCCCACTTTTTTTATTA  
GGGGAGGGTTTTGGGTTTGGTTGGGTTTTGGGGGGGAGAAAAAAAATC  
CCACCTCTTTTTTAAACTGGAAGGCCCGGGGTCCAATTTAATTTATT  
TGGACCTCTTTTTCGGGGTAAACAT

>Sequence 359

ATATGAGCTACCGGGTGGCGGCCGCGGCCGAGGTACTGGTGTGTGATC  
GGAACGTGTCGATCCCCCTTCTCTCATCACTGCTGCTCCAACCTGGATTAT  
TACTCCGGGAATGGTAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTG  
CCAAGGAAGGCATTTCTTGCCGTGTCTGGAACCGTGTATCCTTACTAC  
ATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGC  
CCCTGAAGAAAGACACTGAAAATTGGAATGCAAGCTACTTCCGTAGGGGG  
GATTTCTTTTATAATGGTAAGGCCCTTAAAAAAGGGCTTAACAACAAAA  
AAAATTTTTTCCCCCGGGGGAGGTGTTTAGGGGGAAAAAGGGTTTTTCC  
CCCGGGGAAACCCCCCCCCCTTTTTCTGGGAGGGAAAAATTTTTTGGGTC  
CTGGAAGTTTTCAAAAAATAAAACCCCCCTTTTGTTTTTTAAAAACAAC  
ATAAAAGGGGGTTTTTTTTTTTGAIAAAAAAAAAAAAAAAAAATTTAGAAC  
CCCCCTTGTGTGTTTAAAG

>Sequence 360

TTAGGACTACGGGGCGGCGGGTCTCTGCAAACTAAACACGCCCCGAGGA  
AATTTGGCCAGTTATCCAATTGATGAACTAGTAGATAGAGCCAAACAATC  
TTTTCAAGAGGGTGTTTGTGAGATATGGTTGACCACTGAAGACACGGGGG  
CTTATGGCAGAGATATTGGCACCATCTGCCACACTCCTGTGGAACTG  
GTTGAAGCGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAATCC  
GCCCTATATTTTAGAGCATCTGGAGGAAATGGCAGAAATCCTTAATCACC  
CCAGAGTCTACGTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGC  
GTACCTGCCCCG

>Sequence 361

GTGACGTGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACTTAAACCA  
AATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAG  
TCAGCTTGCGAGCCATTCTCCCGGTACCAGCACAAACCGGGCCAGCCTC  
CTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGAC  
CGA

>Sequence 362

GTGAGATGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACGTATGCACA  
GCCTCACACTCTATAAATGTATGTGCTGAATTTAGAGCTTAATAATG  
AATTATGGAACCTTGATAATGATTGGATCAGGCAGACAACACCTGATCAGT  
CCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAG  
GCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAAAA  
TGTAACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATT  
GTGGGACATTCCACAAACTTGCCTGAACCTTTAATAATGTCAGTGTGAT  
GAAAGACACACCACACACACACTGCACATCATACACAAACACCACCCC  
ACCACCCACCACTCAGACACACACAAAAGGGCAACTCTAATCAATTAAAG  
GAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTGATTGGAT  
CCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Table 2

## &gt;Sequence 363

GCGATGAGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAAACCAA  
ATAAAAAGTGACATTTGAATTTCTTTAAAAGGATTTCCGAGCTCACAGT  
CAGCTTGGCAGCCATTCTCCCGCGTACCAGCACAAACCGGGCCAGCCTCC  
TAAACTGCTCATTTACTGGGCGTCTACCCGGAATCCGGGGTCCCTGACC  
GA

## &gt;Sequence 364

GTTGCGTGAGCTACCCGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAA  
GCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGT  
CCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAA  
CGCAGAGGCTTTCAGCACAGCCAGGGTGCCCGGACTGAAAACCTCCTTC  
ACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGATGAAA  
GCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAA  
AAAAAAAAAAAAAGGTTCTGCCCCG

## &gt;Sequence 365

GATTATGTGAGTGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAGC  
ACTGGGTAAGGCACATTTTGTGGAGCATTAGACAGTAACCCTCAAGGAGCT  
AGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTTCCTCAG  
AGTTCTCATTTGTGTTTCTTTCTTTCTGTGACTTATTTTCTTATTTTC  
TTTCTCCATGTAAATTTTCACTATGGCCCACTAATAAACAACCTGGAA  
ATTACAAGGAAAAAAATTCTTCTCTAATAACTTTCCAAATTTGTGGAA  
TATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCATTAAAAAT  
TCTCCTCCTTTGACTACACACACAACCAAGTGTGGTTCTAATCATGGAG  
ATATCAGTAATTTTGTAACTGAATTTTGGAGACATTTCTCTGTTTAGC  
ATGTATGCAAACCTGATATGTAATCCGGGGTTCCAAAGTCAATTTTTTCT  
TTTTTTTGTAGATGGAGTCTTACTCTGTAC

## &gt;Sequence 366

TGTGACGTGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCC  
TTCAACCCAATCAAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGG  
ACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAAATAGTCCACACCA  
AAGTCAGGATCAAAATGATTCTGGACAAGCCACCAAGTCAATTCAACTGA  
GAGAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTTCTGGATATGCACC  
TGGATAAGTGAACCCCTCCGTCACCACACACAACGTTAATTTGAGAT  
GGATTGCAAAACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACAT  
AGAATATTTTGTAAATGTTATGATAGGCAAAAGTCTCTTAGGACACACAAA  
AAAATTAACCATAAAAGAAGAAAATGGCTGGGTGCAGTGGCTCACACCTT  
TAACACCAGCATGTTGGGAGGCTGATGCAGGAGCGTCCCTGAGCTCAAGA  
GTTACAGCCCAGACTGGCAACATAT

## &gt;Sequence 367

GTATGATAAGAAATCGACTCCACCGCGGTGGCGGCCGAGGTACATTGAGAT  
TCAAGAGAAAAGTCACAGCAGGTCTGAGCTCCTCCAGCAGGCCTTATGTA  
ATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGATGAACTGGCTGAAT  
GAAGTGCATGACAACCTGAGCAAGCTCTCAGTCCAGGATTACAGCACTGAG  
GGGCTATGGAAGCAGCAGTCTGAACTTCGGGTCTGCAAGAGGACATCTT  
ACTCAGGAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAACTAC  
TTAAACAAACCACAGGTGATGAAGTTTAAATAATTCAAGATAAAATTGGAA  
GCCATTAAAGCAAGTACTGCCAGATACGAATTGAGCATACCACAAAAAA  
GTTCTCATTTTGTGTCCTCCCATCCCAATCTCCTCACTAACCAAAGGCTA  
GGAATTATCTGTGAATGTAGGACCACTGGATTTGCAGTCTTCATCTGACA  
ACTGGGGAGAGTTTCTAGGAATGAAAT

## &gt;Sequence 368

GATGTTTATCGACTCCACCGCGGTGGCGGCCGCGGGCAGGTCAATGTG  
CCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAG  
AAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTACCTGGGGT  
CCGTTGAGTTCAAATCTGAAAATTTCTGTCTTCAAGGTCAGCATCGCCC  
ACAAAC

Table 2

## &gt;Sequence 369

TGTTGTGATCGATCGACTCACCGCGGTGGCGGCCGCGCGGGCTGGTACGC  
GGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGACAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAG  
ATGGAACCAAAGCCAGAAGTTACGCGTCACCCCTTGCTCTACAGCCAAACA  
TGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAATCCTT  
AAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAA  
GCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGAACAT  
CAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAG  
GATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGC  
CCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCACAGCC  
AGCAGAACTGTGAGAATTAAATCT

## &gt;Sequence 370

CAGCCATTTTATGATAAGGCCACGGTTGGGCGCGTTTAAAACAAGGGGGT  
CCCCCGCGTGGGGAAGATTTTATTAAGCCTTTTTGTACCCGCGCCTC  
CAGGGGGGGGGGCCCCGGCCCCCCCCCTTTGTTCCTTTTTTAGGGGGGA  
AAATGGCCCCCGGGGGGAAAAAGGGAGAAAAGGTTTTTGTGTGAAAA  
AGGGTTTCCCTTCAAATTTTCAAAAAAAGCGGGGGGG

## &gt;Sequence 371

GGACGCGGAGTTGAGCTCCCCGCGGTGGCGGCCGCGCGGGCAGGTACGAT  
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GCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGA  
AGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTCGTTT  
TCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGT  
CTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTA  
TATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTTACAATC  
TTTTTCCACTTCACTTTGTCTGCANAGAAAATCTACCTGGACAGAATAGCA  
TCTTTTTTTTTCCCCCTGACCCTTGGCATTTCTCTCTCTCCAACCTCTG  
CCTGATCCTAGGATGGACTCTCTCATCCCTCATCTCTATCATTAGCTCT  
CAGGCTGG

## &gt;Sequence 372

TGGACGATGATTGAGCTCACCGAGCGCGGTGGCGGCCGCGCGGGCAGGTA  
CGCGGGGATGTCTCTTGTGACGCTGCTTTTCAAGAACCTGGTGGGGCAAG  
TCCGTGGGCATCATTTGTACCGAGCTGGAGAAAGCCTTGAACCTATCAT  
CGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCTTGCTGAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAAGTAAG  
TCAACTTCAATGTGCGATGGATGAAACCCAGACACATAGCAATTCAGGAA  
ATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTG  
GAGTACCT

## &gt;Sequence 373

TGAGATGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAAT  
GGAAAGCCTGGAGAAAGAGGATGAAATGACGGATGAAGCAGTTGGAGACT  
CTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGACTGCTCCAGAA  
GTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACGAACCTTCAAT  
CAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGGA  
CACATTCAGGATTTCTCCAAAGCAGGTGAAGGTACCTGCCCCG

## &gt;Sequence 374

TGAGATGGTACCGGTGGCGGCCGAGGTACGCGCCAAGTCACTAGCAGGTC  
CTTGTGAATCTCCTCACGGAGGCACTTGCGAGAGTTAATGGGCAGATGGA  
AGGAGATGGCAAGGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAAC  
GCTAACGGAAAAGGGCCGCGCCGGGCTGGTGGGCCAGACAAACCAGACAT  
GGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTGTAA  
AATAGCCTCAGGCAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGA  
TCATAGGAGCTGATGGCTCCGCTGGGTTACTGCCCTGTAGACTTCCAG  
TGGGACAGGATATGGAGGTGGAAGACAGTGACATGGATGATCCGGACCCT  
TTGTAGGTCTAGGCTAACGGGGGTGTTTGTGTCTTAGCTTTTAACAAAA

Table 2

AGGTTAAAAAGTTAAAAAATAATAAAAAANTAAATTNTAGGTACCTG  
GCCCCGGCGGCCGCTCTAACTTGGGGAATCCCCGG

>Sequence 375

GATGCCCCGGGTGGCGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCC  
TAGGAATCATTTTACTGGAAATGTTCTCAGGAATGAACTGAAACATACA  
GTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTATTATTGATCACAT  
ATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATCCAGCCTATCACCTAA  
GAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCT  
GCTGAAATGGCATTGTGTCAGCCCAATCTTTAGCATTCTTTTGGCCCTCA  
TATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATG  
TGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGT  
AGAAGATGTAAAGAGGGAGTGTCAAAAATATGGACCAGGGGTATCTCTA  
CTTGGTCCAAAGGAAATCCTGGCAGAGGAACAGTCTTTGTTGAGTATGC  
AAAGGCTGGGGATTCAAAGTTGCGCAGAA

>Sequence 376

CACATCTTATAATTATTTATTTCACTACTTATTATTCTAATTTATACAC  
AATCTTTCTATTATTTATTCTTTCTATTTATTTACTTTTTTATACTAC  
TTTTTTTCAATTTTGAGATGGAATCCCCGGCGGCTGCCTTGTTCTTTTA  
CTGCCCAGGTACAGGTCTCGAAAAAGCGGGTGGTGEAATGCTGCAATGGG  
GATGAGGGGAGCACGAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCT  
AAGGTGTTCTTCTACCTAGCCTAGTTTTTTTTTCTACCAACCTAGTTCACC  
TAGTTTCTGCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAAT  
ACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAA  
AACAGAGATCATATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAA  
GTTTAGCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGAC  
AGAATTTGTTATTCTTAAACCTTACTGTTTGTAGTGAGAGGGCAGATG  
TTAAAGTAGCTCATTGACGTTACCCCTTTTTTTGAGTAAAGGAAAAAGGA  
GGTAAGATTCCCCCAGGTCTTTGTGGGCCCCAGTAATTTTGCTTGGAATT

>Sequence 377

TGTATGCGTGAGCTACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGT  
GCTGTGTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAA  
GTGTTACATCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTG  
GGTTCCTTAGAGGGAAGAGGTGGAAAGAACCATGACTGTATTACAGGAAG  
GCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGT  
TTCGTTGCTGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAG  
CTGGAAGTGAATTGTTTAGAGACTTTGGTACAATGTGGAAATTGAAGCTG  
AAGGTGTTGATCCGAGTAAAAGGAGCCCTGGCAATACCATGCTTTTTTTG  
AGAAAATTTTTTGGCCCTGAAACCCCAAGTTTGTGTGCCATTGTGGGA  
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TG

>Sequence 706

GGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAA  
CCATAAACTGCAAAAGCAATTTTTAAAAATGATAAATAGGACTTCATCA  
AAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGA  
AAAATCTGATGAGACTTTATGTCTAGAGTAATGAATTCTTGTTAACGAAT  
AACCAACCCCTTTTAAAAATGGGCAAAAGATTTGAATAAACATTTCACT  
ACAGACAATAAACAAATGGCCTTAAGCACAAAGAGATGCTCAACATCAGTA  
ATTATTAGGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCAC  
TAGTATGGCTATAATAAAAAAGAGTAACAAACGTTGAGGAGGATATGGAG  
AAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTCCAACAC  
TTTGGGAAGCTGAGGCAGGCAGACTACTTCACTGAACCCAGGAGTTCAAG  
AGTAACCTGGGCAACACCGCGAAACCCCATTTCTACAAAAAATTCAAAAA  
TTAATCACGCTTGGTGGTGGTGGCCGCTATAATCCAACCTCTTAGGAGG  
CTAAGATGGGAGGATTGGTTGAACCCAGGCAGGTGGAGGGTGGAGTGAAC  
CAAGAAAAAACCGGTGGACCTTTACCCGGGTGACCGAGTGGGACCCTACT  
TCAAAACAAAACCGAACTACTGGGGCCCTATAAACTGGCCGTTTCTTAAA

Table 2

CATAATTTACCCCTTGGT

&gt;Sequence 707

GGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCCTGCTACT  
TACACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATT  
TAGGATTTCAGAAATTAACCTATAAACCTGTCATTTGATTCTTGATTATT  
AATGTCTGGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAAT  
ATATTTGAATTAATGTATATTTTGAGAATAAAAGGCTATTTCTAGAAAAT  
ATTACACACTTGTCTTATGTAAATAAAAAATTTGCTATTTATTGAATATC  
CCTTACCCACCCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGA  
AGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTCT  
TCTGTTTATATTTTGGAAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCA  
TTGTACCTGCCCCGGCGGCCGCTCAAAGGG

&gt;Sequence 708

ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACTTTTAATT  
AGCTACCTTGCTCCAGTAATCAAAGTCTCTGCTGCTTGTGTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGTGAGT  
ATTTACTTTGGAAAGTTTGGTCGACCTAATGATAAATTTAGAGTTTATTT  
TCCTTTTACAAGCTTACTGCATTGCATGGTATTCAGTCAGCTTTTGATGA  
AGCTATGTCATACTGGTCGATATCATCCTTTCAAAGGGTATTGGTGGCAC  
TTCAAAGATCATGAAGAGCAAGGTAAGTAGAACATCCATACCCTCCTAAA  
CACTTTTGGACCTCTGAAAATGAGCTTGTTTTTTAGGAAAATGGCTGGGG  
ACTTTCTAAGGGGTTCACCTTTTCATGGATGATGCTTTGTGAACTGAAA  
TCATGGAATAGAAGTGAATAATACTTTACATAGGACAT

&gt;Sequence 709

GGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAGTTGTTAGA  
CTAATTTTCAACAAAAAATCTTTATTGTCTTGGAACAAAAGAAGCATA  
CTAAAAATTTCTAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTCAAC  
ATAAACTTCTAATTAACACGAACCTGTGCTCTTATTTTCAGCCATTGCTGT  
GTGGGCTTGGAGCCAGGAGAAAGATGCAGAGGAATTTACAATGAATTACT  
TCCATCAGCTGCAGAAAATTTCTAGTTTTGGGGAGACAATTACAAACAT  
GTTTTAT

&gt;Sequence 710

ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC  
CCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTTCAGCA  
TGAGAAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC  
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA  
GAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA  
TCTCCAGTACC

&gt;Sequence 711

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTAGCCATATACCAAATAA  
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA  
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCCT  
AATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTTTTACTTTATGT  
TATTGACTGATCCTTTAGAATGATTTTCTTTTGTCTGGGAAAAAAAAT  
GCATTCTAAATCAGATTCACTAATACTTTGATTCACTTCCAAGGATT

&gt;Sequence 712

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TGATTAGGACTTCATTATGTATCTTTTGCTACATAAACCTTTGTTAGAT  
TAAATGGAAGACACCTGCTAGGTGATACTTTTTATAAACATATGAGTAA  
GTCATATATCTTTGTAAATTTCTGTATGTTCTTTTGTATAAAGATGG  
AGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAA

Table 2

TTAATTACTAAGTGATAGAAAGTATTCATATGCCATTAAAGATTGCCAAT  
TCTATTTG  
>Sequence 713  
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AATGAATTGTCTTCTGTGGGCTGTGTTTCAGAACGGCCGGTTGTGGGC  
GATGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAACTCAACGGACC  
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTCATATTTTCTT  
ATTTCCCGAGCCTATAAGAGCATATTTGTGTCTTGTAAAGGTGCCTGGC  
>Sequence 714  
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TTAATCAACCACTAGAATTAATAATCAGGTTATAAATCCTCAAAATCACCA  
GAGTATAAATTTAAATGAAAAACCCAGACCACAGAACAAAAACAGAAATA  
CCAAAAAATAATCACAAATATTAATAAACAGTATATAAACACAGTGACAG  
AATTAGGACTAAACATATCTGTAAACAATAAATGTAAGGGTAATCTCAC  
CAATTATGAAAAAGACCTTCAGATCATATTTTAAACAAATTTAAAACT  
CAAC  
>Sequence 715  
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GGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTT  
TATACTATTCATAGCAAGA  
>Sequence 716  
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GATTCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCTGCCA  
CCATGCCCCGTGAATTTTGTATTTTGTAGTAGAGACAGGGTTTCACCGTG  
TTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCG  
GCCTCCTAAAGTGTGGGATTATGGGCGTGAGCCACCATGCCCACCTCCT  
GGGTCATTCTTCTGGATATTACAGGCATTTTATGCTGATCTAAGTGAA  
AACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTTCTACCTATGAC  
ATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAATAAAAC  
ATTGCTTAAGGAGAGTTGGGGAGTGTCATAAGGATCTGCAGTTGGGACT  
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AGGATTTTGTTCGCCCTTTGTTGGTCACCATGAGCATTTCTTATGGGAA  
TATTTGTGAAAGAAAAAACACCTTTTTTTTAAACACCCCAGTTCATGTTA  
TTAACAAGCAGAATTCACCTTAACGGCTGTACCTTGGTCGGGAACACACT  
TAGGGC  
>Sequence 717  
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GATAGCCAGCTAGAGAACTACCAATGATGATATCCATCAGGAGGTTTG  
GTGGCCAGCCTCAAGATGGTCTCAATGATCTTTGCATCTTCATATTC  
CACCTGTGTAGTCCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATC  
ACCACATGGCTGCAGTAATGGTATGTCACTTCTGAACTTAGGTTATAAAA  
GACTATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTCTGATCTTACA  
CTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTG  
AAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGGCCTGCCAA  
CAACCATGTGAGTGACCCCGGAAAGAATTTTTCAGTCCAGTCAAACACT  
GAGATAACGGCAACCTCAGCTGACAGCTTACCTGCAACCTGATAAAGACA  
CCCTTGCCCCGAACCATAGGAACCATTTCTACCCAAATTCCTGATCTTTA  
GGACCTTGTTAGATAATAAATATTTGTTTAAGCATGGTTAATTTGTGGCA  
ATGTGCTATATAACCAATAAATAACATGGCGGATAGAAATTTCTTTTC  
CTTTGGACCAACCGCAAAGTAACCTTTTTTTCTTTACAGCCAATTTCC  
TTTGGCTAAATACTGTACAAAAGAAGTTCCCGAAATATGAAGGATGGGGG  
CAGGTTTTGC  
>Sequence 718  
CCCTTAGCGTGGTCGGTTTCGGGTATTTGGGGCGGGATAAACATGGCGAC

Table 2

GTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCGG  
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GAACACGACAGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTCACCTC  
CAGTCTGGGCGACAAGAGGGAACTCCATCTGAAAAAAGGAGAAATTCT  
TTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAATATGT  
ATGCATCACAGCTATTCTTTTCTGAGTTATAGCTACAGTTTTCTACTG  
TTGTCTTCATGCCATTTCAATTCACATGGT

>Sequence 719

ACTNNNTTTTATTTTTTTTTTTTTTNGGAGACAGGGTCTCGCTCTATCA  
CCTAGACTGGAGTGCCTGGTGCAATCTCGGCTCACTGCAACCTTCACACC  
CCAGGCTCAAGTGCAATCCTCCCGCTGAGTAGCTGGAACCACACGTGC  
GCACCACTAAACCCAGCTGTTTAATACACCATTTTTAACCCTAAACATTA  
AGAAAAATATAGGAACAGTAAGTAGATTACATTTGTAAACAGACAAGCT  
TACAAGTTTCTCAAAATATGAAAGTCATACTAACTGGGAGACTGTAAAC  
TTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTAC  
AAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCACC  
TTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAGAA  
TCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTTCAATGAAATT  
GTACGCGGGATTCTATGGTAATGATGACTTGCCAATGTTCCAGGTGGTTT  
CTTAGCTAAAACTAGAGAATGCCCTAACTTAGATGGTTTTTTGAAGGCT  
ATTACAATATGGTATTTGGTTTGAACCCCTTTAAAGCTTTTTTACCAAT  
TTTTCTTTAACCCTTTGGGGGGGGGGGACCCCAAAAAAAAAAAAAAGGGC  
CTTTGTTTTACACCCCTTTTCGGGGGGGGGGGGGACCCCAAAAAAAAAAAC  
CCACAACCGCCCGCC

>Sequence 720

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GAAATGTATTAGTAAAAATCTCTTTANTTCAACTATCCTCTTGATTCA  
GGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGA  
TAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGG  
TCATGTATTTCAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAA  
GTTTCTCTATTTTCATCCCCCATGATAAAAAATTATATAGAATAAAAGCTGA  
ATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTATAGCATTAATC  
AGATCACAGAATGCATATTTAAACAAAAATTTGACTAATTTAATTTTTAT  
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GTGCAATGGCNGGATCTCAGCTCATTGCAACNCTNCGCCTCCTGGTTCAA  
GCCATTCTTCCCGCCTTGCTTCTAAAGTGCTTGGATTGCAAGCCTTTTG  
CAACCTGCTGGCCCCAGAAAACTGGTTTTTGAATGTTGGGTTGTTTGG  
GGGTTTTTTTTTCCCTAAAGCTTAAATTTCCCTTTGGTTTTTTTTTCA  
AAAAAAAAAAAAAATTACCCTTTTTTTTTTACCCTCCCTTTTTTTTTTA  
AAGGGGAAAAAATTTCCCCCAAAAAAAAAATAAAGGGGTTTTATTTGTTGT  
GGAAAG

>Sequence 721

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ATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCC  
TAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTAT  
TACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTTTTAACTAATT  
GGCTGAAATATCTGCCTGTTCCCTCTTTACATTTTCTTGTTTCTTTCC  
TTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAATTTTTTAAT  
GAAACAAGTCCAAGTTTACTCTCAGTGGGTTTGGGACATCAGATGTAA  
TTGAGAGGCCAACAGGTAAGTCTTCATGTCAAGTGTGTTGTTGAGGAACGA  
GCCTATGATGTCAGTTTTTCCCAAAGGGAACAAGGACAGAAGGGATTGT  
TCATTTTTACATCTCGGTTCTGTAATACCACCTTTGACTTCATGGTTGAT  
CAGAATTTGAAGTCTAAACCGAACGTAAGCACTTGGGGGTATCGAATTTT  
AATACCTACCACAGTTAGGACAATTTTTTTTCAAAGGGCCATTATTTTTT

Table 2

TGGGGCAACCCTGGGGGGGGGGGGGGCCTTTTTTGGAAAACCTTGGGGG  
ATATATTCTTTTTTCCCCCCCCCTTTATAAAAAAAAAA

>Sequence 722

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ATGCTTCCCAGTTTGGCAGATGTGAGCAAACCTATGTATAGGAATCCAAA  
GGTAACTTTTTCTTTTCACTTTACAGAAATACTGTCAAGTCCAATAG  
AGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTGAATCTCTGCTCTGC  
CACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTAGCT  
CAATTTCCCCTCTGTAAAAATAGGAATAATAAAAACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATGTTTCT  
GTAATGGGCAAGATAGCAAATATTTAGATTTTGTGGACCATGCAGTCTT  
TATCATAACTGCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAAT  
ATGTAAATGAAAAAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAA  
ACCGACTGGCTTGTCACTCTGGCCTATGGGCCATAGTTTGGCCATCTCT  
AATGTAAAGAAAGGACTTTAGCCCAAAGCCACAACCTGCATAGTAATGCC  
TTAAAAAATGTTAACATCTTTACTGTTATTAATATTACTACTGCATCTAT  
TACAGTAGCAATTGAGTAATGAATACATGAATGTTATAATGGTAAATTAC  
TAACCTTTTAAAAATATTAAGCATTTGGCATATTTTAATACTTTAAATCTT  
TTAGGAAGATAGTTACCCTGCAT

>Sequence 723

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TCAGGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATTCTCTTCT  
AATTACAGTGTAAGCCACATCCCACAAGTTTTGATAGTCACAGAACTGTA  
TCGTCACACTATTTTTTAATTTCAAGTAAGTTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTG  
TTTTTATTATTAATTTCTAGCTGTATTGAGCTCTTGTGAGAGAATATGGT  
TTATTTTAGTCGCTTGAATTTAAGATCTGCTTAATGGCAAAATGGATGG  
TCAGGTTTTTGTAATGGTTGCCAGTAAGCTTGGCAACATATGTACCTGC  
CCGGGCGGCCGATTGAAAGGGCTATTTCCCA

>Sequence 724

CCCTTTGAGCGGCCGTTCTGGCAGGTACTCCTCAGCTTGTGCTGCCCTT  
CTCGAATGACTCGCGTTTCCTGCTTTCATCACTACACCTCCCACCGCTCT  
CCATCACCTGCTCTGCTCTTATAAGGATCCAGAGAAATGGAATAATCTTA  
TTGCTGATCTATGTAAACAAGTTGAAGAATCGTCTGAAAGAAAATACAGT  
GTGTCTAAACTGGAAAAGTCTGTAAATAGTTTGTTCATGAGCATTGACAC  
AGTGGAGTTACTGTTTCATCATGGGGGTACC

>Sequence 725

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CATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGA  
CTTTTCATATGTATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAG  
CTTCATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAA  
ATCAACTATTAACCTCTTGCCTGAAGACACAAATGAAATATTCCCTATTT  
TACAAAGCAAATTAGATTCCAAGATTTTCCAAAGCCATACTCCTGCAGTT  
CACTTGGGTTCAAACCTTAAATCATAATAGTAATATACACATATTTACAT  
TATAACCCATTACACATTATTTTCAACTCAATGCAAGTCAAACAAAGGTT  
TCACAAAATAACCTTACTATGTGCAATACACTGGTATTTTCTATTCTACT  
CAGAAATTTTAAATACCTATCATGAACCATTAATTTGTCTTACCACTAA  
TGGAGTGACAATACCCAGATTGAAAACTGGATTAAAGAGTAGTTTTTAA  
ACCCATAATGGTTATTTGGCATTACTTAGGCAAAAAATATTTCTCGCTTTT  
ATAAATCTTACCTTTTAAAGCAAAACCTTTTTTAAACCAATTAATAATTT  
TAATGAAGGGCCATTTGACCGGTNAATATTTATTAGGGGTAAAAAACC  
AAAATTGGCCTAAAAACCTTCAACACATTCCATAATGGAAGAATGTGGC  
GAAATAAATGTAAA

>Sequence 726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAATAA

Table 2

AAGGTATATGTGAAAAACCTTAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTTCTTTTCACATTTGGA  
CAACAGAAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATNGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGTGACAAGTGCCCGCGTACCTTGGCCGGAACACGCTAAGGG

>Sequence 727

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AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCTGAAGACTGG  
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CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAAAC  
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTCATGTTTG  
GGCAAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCGACTAA  
CACAAATGAAGGTCTGAATGAAGAAGTCTTACTTTTATAAAGGAATTTTC  
CCCTCCTCACCAATCCAAGTTTAAATGTTGATATCTCTGTTGCAAAAGG  
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AATAAGGTATTGAATGTACATTTAATACTCCTTCTCATTCTATACTGGAT  
CTATCTTGGAATGATGCATTTTTCATGTTTAAACATCACTTCCTAATCCG  
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TATTACTCTAATCGCTTGCTTCTTCACTCTACTATTTTATCATCAACAT  
ACTATTCGGGTCTTCTGCTCTTACAACATGTAATTATTTCTCTACTGCTC  
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TATCA

>Sequence 728

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GTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCTGCC  
TTGGCCTCCCAAACCTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTA  
TGAAAAGTATTTAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAAT  
AAAGTAAGTTCAAACCTAGAATCCTTGACACAACCTGGTTTTATTCCCAATG  
CCTCTTAAAAAGAAATCGTTCCATGGGTGGCAGGAGGGGTGTTTTCATGGT  
GTGATGCACCGTGACTTGTTATTCAAGATGTAGTCCAGTGTTCATCTAT  
CACGTTTTATACCTTTCGAAAAAAGAAAAAACCAGAAACCACAACCACAA  
CAAAAATTATTCCAATTAATGGGATTACAGCAACCTGGATGGGACTGGA  
GACTATATTCTAAGGGAAGTAACTTAAGAATGGAAAACCAACATATGTT  
CTCGCTCCTTAGTGCGAGCACTTATGAAGATTCCAAAGGCCTAAAAATTG  
ACACAATGGACTTTTCGGGAACCTCGGGGAAAAAGGGGGGGGAGAGGGATT  
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CCGTTCTAAAGGGGAAATTTAGACAACCTTTGGCGGCGCGTACTTATGGA  
ACCCAGCTTGGTACCACAGCTGTGGTGTAATCATGAGCATAACCTGTTT  
CTCTGGTAGAAATATTAATCCGTCTACAATTCTCCACAAAATTTAGATC  
CGAAGCTTAAAGGTAACCCCTGGGGGCCCTAAGAGAGAGCCAATCCG

>Sequence 729

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CACAGTTGGCCTTTTGCCATAAGGGAAGGGTATTGGAGAAGAGTCAACC  
ACCACTCATGCCTCTCCCTGCCAGCAGCACCTTGGATTTTCTGGCTT  
TATGCCTCCTGTTTCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCT  
ACACACGATATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACA  
CTGGCCTTCTTCTCCTGAGCACTAAAATCCTAAACATGCAACTTAAAA  
AAAAATTCTAAATGTGAACACCACCTTTCAATAATTTATATTAATGTATC  
ATCCCAACCTTTTTCTTCTCTTTCAACGCCCTTCTTCTACCCAACT  
CCAATATACCAATTTGTTTGAACAGTTTACATTCTAAGTGTCCAACTAT  
TGCTAAAGGAATGGATAAATTGTTGTACCTCGGCCGACACGCTTAGG  
G

>Sequence 730

Table 2

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CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAA  
TTGGGACAAGTGCCCGCGTACC

>Sequence 731

ACTTTTCTGAAGAATACATCTTCGTTCAATGTGGTCGTATTCTTAATTTT  
TTCTATAATATTGCTTGTAACTTTAGAGTTATGGTTTCATTTTTTGACT  
ATTAAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA  
TAATTTTTTAATTAAGAAGACACTCTCAAGTGTGAATAAATTGTAGA  
GTAAATTCTAAGTGGAGGATATCGTAAATTCCTTTTTGTCTTGGTATTGA  
CATGTAAATGTAAACATATGTGAATAATTCAGTCCACGATTGTCACAGGT  
TCTATGTCTTTACCTCCTTTCAAAATACCTTTTAAACAAATACCTTTGAC  
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTTCGTTTAT  
GATCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT  
CTCAATTCCATCCTATTGTTACAGAATAATAAATTAATCAGAATAGGAAG  
ACCTTAAAGATCTTTCTCATGAGTTCAGATTTCCAGATAATAATTAC  
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>Sequence 732

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GTTGCCAGGCCGGAGTGCAAGTGGCACAATCTCGGTCACTGCAAACCTCGG  
CCTCCTGGGTTTATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGTGCCCGCCACCAAGCCAGCTAATTTTTTCTTTTTTTTGTATTTT  
TAGATGATACGGGGTTTCACCATGTTAGCCAGGATGGTCTTGATCTCCTG  
ACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCG  
TGAGCCACCACACCCAGCCTATTCTTTACTTTCTTAACTTTCTTTCAC  
TTTACTCTATGGACTCACCTGAATTCTTTCTGCTCAAGATCCAAGAAC  
CCTTTTTTGAGGTCTGGATCGGGACCCCTTTCTGTAAACACGACTGTATC  
CCCTTGGCAGACATATGAATCTGCACCCCGCTTGGTCTCCAATATCCAG  
GGATGAACAAGGGAGGAAACCAAGGAAATGCTTACTGAGGCATCTTTTA  
TGAGCAGTCACCGTCTAGGCTCTTTACTAACATTGCTTTTTGCACTGTT  
CACAACAAGTCTGGATATCTTCAATTAGAAATGTGAAAACCTGAATTCCC  
GATGAAAAGCCCCACTGCTTTTGAAGTGGCGTGGCTTATATCGGGCTTTT  
GACCAAGATGGACTGAATGCCATCTTGTGTCAGAGGGACTTAGACATTTG  
AGGGAAGTT

>Sequence 733

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TCAGTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAAA  
CTAATTTTTAAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGT  
AAGACTACTGTAACCTGTATAAAATTAACCTGAAAAATTCACACTCCA  
ATAAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTA  
CTCTATGAAAAAGCCTAAGCAATTCAATAAAAACCTTGATAACTGCACGTT  
TAGTTTGCAGCATCTTGT

>Sequence 734

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CATTAAAAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTT  
TGCTACATTAATAAAAAATCCATTTGAATACACAGTGAACATAAACACCAG  
AGTGGCTAAAAAGTCCCTTCATGCATATTTACTTAGCAGAGAGCTCTTGA  
GAAAGACCCAACCAATAAACCCCAACCAAGCAAATCCAGCTACTTCTCT  
AGCTGAGAGGGTGGAATGACTCCAAAAATATTGTTTCAAGCTCAAAAAGCC  
TAAAACAACCTCCACATAAAAANAACAAAAATCTATCTAATTGGACATTTAC  
CTTTTTGGAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAAAAAAA  
GTACC

Table 2

## &gt;Sequence 735

ACTTTTTTTTTTTTTTTTTTTTTGTCACAGACACAGGCTGGGAATTTCC  
CAAACTCTTACAAGTTCTCGTCCCTTTCCCTTAACAACCTTTTCGGAGTA  
TCTCCGTCCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA  
CCTTTAACATTTCAATTCACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT  
TTTGTAATGAGGATCACTTTCTTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCTTTCTCTCTGAGCCTTCACCCGAGTCCCCATTGATGTCCGT  
ATTTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGCTCTGCAGCATGTACGCGGGGAAGCTCTGTTTGGTGCTTTG  
GATCCATTTCCATCGGGCCTTACAGCCCGTCGGTAGACTCCAGCAGCCAA  
GAATGGTGAAACACTAACGAGAGACAGATTGGTTTTTAAGAAACCCTTGG  
ACGCCTTGACGGGATAAACCTGGAGTTAGTTGACTTTTACCCCCGGGG  
TGGGGCCTCGGAAAAAAGAACAAGCCCTTTTTCATTTCCCTTCTTGAAAA  
GATTTCCAACGGGATTTTCTCTGAATAAATGTGGATGACTGCCCGGATGT  
TGCTTCAAAGGGGAAAAA

## &gt;Sequence 736

ACTTGTCTGCTTCAATAAAATTTGTCTTTGATTTCACTGGTGGAAGGGTG  
CTTGAATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCAGTTTC  
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATAACATTATAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGGA  
ACTTCTACAAAAAGTTGGAAAGAATGCAAAATTTAATAAAAATTAGATGCT  
AAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT  
ATGAATAGGTACC

## &gt;Sequence 737

GGTACTTNNTTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCCTTTATTC  
GGTTTCTCAGTAACAGTGATGCATTAAGAAATTCCTGTCTGCTAACTTC  
ATAGCAAACCGATCCCGATCCCTCACCTCATTGTGTGGTAGCCCAGCAGCA  
GAGAAGATAGGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGAT  
GGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAG  
GGTTGATTGGCTGACCTAATGTATTTCCAAAAAGGAAAAATTTCAACAAGT  
TGCCGCATTATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAA  
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ACTCTTTTGGAGACTCAGAAAACATTGGGTAATAGAATTCAGTTCCCTA  
AGTGAAGATAAAGATATAGCAAAATATGAAAGAAAGCCTAATTTCAAATTC  
ATGGTGTTACCATATACATTTACAGAAATATCCAGATATTTACACGATC  
TTAAGATATTAATACCTAAAAATTTTACGATAATTTCTAAGAAAAATCTTAT  
TTAAGTATAAAAAAATTTTATTACCTATGGGACGTGTGGCCTATTAACCTT  
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GGCCGTTAAAAAGGGCG

## &gt;Sequence 738

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CACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCA  
GTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGA  
ACAAAAGTGGCACTATTCATTGTGTAGTTTTTTGTAACTTATATTTTAC  
CCTAAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAAATTATTCATGG  
CTAAATAATGCCTAGGCTGCCATGAGTCTTTCTCCTTCTATAAACCGTG  
TCAGCATTTCTTTATATATATCTTTACGACATCTGCAATGATTTCTTTG  
GAATAAATTTCTAAAGTTTCGTGGATCGAAAAGATTACAGGGATTTTAGT  
GTTCTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTACAGTTC  
TGAATAAACAAATTTCTTTTTATGTTGCATTTAAATCTACCTCCTTGTA  
GCATATGCAGGGAAAATGAATTATTTGGTCAACATGCTTTCAAATACTTG  
AAGAATGTCTATTTTCTTTATGACTATTCTGTGTCTGGACTATACCAT  
TATTTTCCCATGATTTACATTGGAAGGTGGTGATTCAAGCTCAATGCATT

Table 2

AATTGCTTCTCCGAGGTTTTTAATAATAGATGAAGTGGTTAGCTTCTAAA  
TAAAGGATATTGTAGGTGGAATGTATAATATGGCCTAAGCCCCGACAACTT  
CCCTTGGTTTGT

>Sequence 739

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CAGAAGTAGGCTAGCAATGGTCACCCCTACATACTCCGCACACATCTTT  
AAGAACAGGACACCATTACCACACCCCAAGAAAACCAGCATTTAATGAATT  
TATTC AAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAA  
GTATCCTTCAATTCTGGATCCATTGATGGTTACAGGTTGTATTTGGCTG  
TTACATCTTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCCTCT  
TTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGA  
GCATTCTCCATTATCTGATTGTTTCCATGTGACCAGATTCCGGGTCACAA  
ATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAA  
CAATAGATTACTCAAGTAGAGAACTGGGAAATTGTCCTTTGTCCATTACA  
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CGGCTGGAGTGCCATGGCACAATCTCGGTTAACTGGAGCCTTTACCCTCT  
GGGTTCAAAAGATTCTCCTTGTCAACCTCCTGAATAGCTGGAATATAGG  
GCCTGGCACCTTGCCCGCTGATTTTTTATTTTAGTAAATAGGGTTTAC  
CAATGTGGCCAGCTGGGTTGAACTTTTGAC

>Sequence 740

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TGGTGAGTGTTCCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTA  
AATGAAGTAGTCTATGTATGTCAATTATTGTTTGATGATTGATGGTGTTG  
AAATCAGTTATGTCTCACTGATTTTCTGCCTGCTGGATATGTCCATTTC  
CAATAAAGGTGTGTTAATCTCTATCTATAATAGTGGATTTATCTATTTCT  
CCCTGCAGTTCTATCAGGTTTGCCTCATGTAGTTTGATGTTCTGTAAA  
TGCATACACATTAAGGACTGTAAAGTATTCTTGGGGAATTGACCC

>Sequence 741

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GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
ATGAAAACAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCA  
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAAGAATTGGGTCCTTCTCC  
CCTCACCTGGTTTGGATAGGAGGGCCCAGAAAGAAGTCAGGACAGACCAT  
GTGTGACTGTCCCTAACCCAAAGCAAGCTACCGTGCAAGCCCAACCCCA  
GGACAATAATCCCAGCCATGCCGGAACATGGGTTAGCTTGACCAGCACTC  
ATTACAACGATCCCAGCCTTTGTTTAAAGGTGCCAAAATAGTTTCAAAG  
CAATGTCTAACCTTCCCCACCTTTAACAGGAAAGAACATTTTGAATAATT  
ACCAAAAGAAGTCCATGGACCTTAGAACTGACCAAAAAAGCTTTATCCTC  
TAAACT

>Sequence 742

GGTACAGGTTTCCCTTGCCCTCAACTTCTCATCCTGGGTGATGAGACTGTT  
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CTACTTTTAAAGAAAAAGGAAAAATCAGAGTGCTTTTAAAGGAAAAATCAGAGT  
GCTTTTCTTGCACTGTCTATTTTCAAGTGTCTTTAACTCAAAAAAATCA  
ATATGCGAAAGTGGCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGG  
AAAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAACTAAAAATATCCA  
GGTGCGGTGGCTCACGCCTATAATCCCAGCACCTTGGGAGACTGAGGTGG  
GCAGATCATGAGGTGAGGAGTTTCGAGACCAGCCTGGCCAACATAGTGAAA  
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Table 2

CTGTAATGCCAGCTACTCAAAAAGGCTGAGGCAGGAAAATGGGTTGAACC  
CCAGAAGCAGAGGGGTGCAATGAACCCAAAACATCGCATTGACTTCAGCCT  
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>Sequence 743

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CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTATTAGAGACCATCGCA  
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA  
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGCANAAGT

>Sequence 744

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TAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAG  
ATATTCATTTATCTTCCTCGTATTAGACTGCTTGATAGAGACTCAGTGT  
TTAGACATTCATTTCTCTTCTGTATAAGACTCCTTGATAAGACTCGG  
TGTTCAATTTATCTTTTTAAATTAACCACAACAAATATATGAGTTTTTAA  
CCATTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCT  
AGTTTTAAATAATAA

>Sequence 745

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ATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCAT  
CTAGATAAATATCTATCAAAATTAACCTTAAAGAGAAATACTCTCTTCT  
TAAAAGCCCTTATTTTTTAAGACACTAGAAAAATAAGTTACTATAAAAAGT  
GGTGGTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATT  
TTTTAGTTTTCTG

>Sequence 746

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TTGAGATATTTGAATGGATTTTTCAAGGGGGGAAATGCTTATTATAAT  
AATAAACCAAAATACTTAACAGAAAAATTGTCAGCTATTCTGACAAAAATA  
AACATTTTGAGAGACTTTATTTCTTTGTCCGTTTCTGTGGTATCACTCA  
TTGTCGTTAAGTAAGTAAAGCTTTTTATTTAGGTAAGAAGTGAATTTA  
TTTTTAAATTATATTTATATTTATTAGCACAGAAGAATAATGAGAGCC  
ACATTTTAGTTCAACTT

>Sequence 747

ACTCTTTGTTTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
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CAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTTCAAGCAGAGGAGTTCCCATTTTAAATAGAGGCATTG  
TCTGATGTGTTTATGGTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC  
TTCTTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG  
TGTGGTTT

>Sequence 748

CCCTTGAGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTCATTCAAGAAAGATAATTTACACTTATTCTTTGAAAGA  
AAAATTCATGGAATTTCTTCTCTAATTAAATTCAAAATACATTCTC  
TCAACCCTATGCCCTCATACTAGTAACTTGATGGTTAGCGGGTAAGTAGG  
TAGTAGTAAAAGAGCAAAAGGGGAAATTTGGGAGCAAAAAGGGAGAAA  
AAGAAAAAAGGGACCCTTCTAGTTTCTAATAGAAAAGCTAGAGAATTC  
CATTCCTGAAAATTAAGATATTT

>Sequence 749

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAATTGCCTTAATAA  
CTATACTATTATAGAATCTGATAAACCTTACATTATTAATTTGATTATAA  
AATCTTCTTGAAAAACTTTGGTATGTATCTTCAGAAGGTTTTTAAAAA

Table 2

TAATATTTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA  
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT  
TTATTATGTATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

>Sequence 750

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TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTTGTCTGAATTAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATA

>Sequence 751

GGTACATTTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG  
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTTGTCTGAATTAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATAGATACCTGACCC

>Sequence 752

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ACACTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATC  
TTTTTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATT  
TACCCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAG  
TACTTGGTGTATTTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGT  
GGTAAGGATGGTATTGAACACGTTTACGTCTGTCCCTTTCTCCTTTCTC  
CTGCTTCATACAAGG

>Sequence 753

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TGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTG  
ACATATTTTTCCCATCTTCTTATTTCAACCATTTGACTGGTTGTCCAGCC  
CCAAATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCAC  
CTTTAAATAGTTGAGTTCCATCCCTTTAAAATCATTTAAAAACATGATT  
TTAAATTTATCTCCATTACCTTATTTGTGTTACTTTTTACTTTTATT  
TATTTCTC

>Sequence 754

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGG  
GCTGTCAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAAAT  
TATTCCTCTAGAGAAGAACGTTTTCTTGCCATTCCCTGGCTGCTGGTCA  
TTGCTGGCAGTCCCTTGCTCTCCCTGACTAGTAGCTACATCATTCTCATT  
TCTGCCTCTGTCTTCATATGGCTGTCAATTCACCTGTGTGCTTGTCTCTGG  
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ACCCCAATCCN

>Sequence 755

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GGGGTGTTCTTTTCTCCCAACAATCCTTTCCCATCTGCTGACAGTAGACT  
TAGCACCTCACAGATGCTTGGGCCTGGAAATGAAGCCATGAAAATGAAGC  
CCTCAGCCTTCTTGGAGATCAGAGCCATGGTCCTACCCACAGCACATGG  
GTT

>Sequence 756

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AACAAATTTACAAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTAT  
AAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGG  
CTGCTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACA

Table 2

AATACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTG  
AGGAGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTG  
G

>Sequence 757

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TTCTCCAATGGAAGTGGGAACAAAGAGAAAAACCCCTGTGTGCTCCTAGCAC  
AATATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGA  
AAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA  
AAACTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACA  
AGTCAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCT  
TGCTAATGGAATACCTATCTGAGGCTGTTTAGGAATACACAAA

>Sequence 758

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CATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGT  
TACATAGTTCAGTCTTAGGGATGAAGGGATTATGTCTCTCCTCCCTCAG  
GTACGCGGGGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCC  
TGAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTT  
GGCCTCTGGTCTACAAAGATTTTATAACTCCTTGGAAAGCTTCT

>Sequence 759

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CTTGTATAGATCCTGTCAGCTGATTGCAGTGCTCTTAACCTCTCCATTGT  
GAGTTGTTCACTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTT  
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC  
CAGAACATCCGTATATATGTTTTTTTCTGTTTCTAGATTTAAAAATATTC  
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA

>Sequence 760

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TGAATGGATTGAATGCTCTTTTTCATCGGTGGATATATTTTTTTAAAT  
TTTTCAAGCGGGTAATTGGGTTATTTAATGGGGGGTTTTTTTTAAAGTTT  
AAGGGA

>Sequence 761

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TGACAAACTATTCAACCATTATAAAGAAAACCGAATCAAAAGCACTGGCT  
TATTAGACAAGAGTTTCCCAAATATCATGCTAAAAACAGTAACAGCGAGC  
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TGGGGAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>Sequence 762

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CTTGTTATGTAGGGATCAGACTTGTTATAACATAATTCACCTTTATAATT  
CAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGTATGTAATATTTTATTA  
TTATTACCATATTGATATTCTCTATATAAAAAAATTTACATATTGTAGTT  
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TAAAAAACAACCTGA

>Sequence 763

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ATGGCCATCAGGTGGACCCAACCTTGACACATCCCAAAGACCTGGCACT  
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GGATGTGTTTAGGCCAACCTTGGTTACAAGACCCCTGGAATATTGTGTTT  
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Table 2

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CC

>Sequence 764

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TATTGTAGGTATGGTTTCAATTGGTCGTCGGCAGGGGGTAAGTGAATCCT  
TGGGCAGGTCAACCATAGCCTTCTAACTTTTGTAACTTTTAAAGCCT  
TTTTGATCCAAAAAATCTTTAACTTTTATAAGGGAGCCAAGTTTTTC  
AAACTTCCCTTAAAAATGGTTTGAAATTATTAATTAGGTCCCAGGTAAAA  
ATTTCCACCCAAGGCCTCCACCAGGGGAAATACCCAGGGAACCTTTTTG  
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>Sequence 765

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GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
ATACTCTCCGTCAGGAATTTTGTCCCTTGATCTTTTGTGTTTATTGC  
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>Sequence 766

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GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTTCAGT  
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TTCTGTCTT

>Sequence 767

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AAACAAACAAAAAACCCTAAACATTTTGCTGTTTCTTTCCCTCTGTATT  
TGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTT  
TATTAATAGATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAA  
GAAATAGATTAAAGAGTAGGAAATATATAGATGAAGATGTAAGTGTATAGAA  
GTTGTGTAATAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGA  
TTTTAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTTCTTTCTAA  
ACTGG

>Sequence 768

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AGGCTTGCTTGTTATCCACAATAGTTAATACCCAATAGTAATTAATGGA  
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AAAAGCACCGCCCAAGTAAATTTGTTTGGGATTGCCAGTTATTTCAA  
GAATTTTTGTTCAATAATAAGAACTAATAAATTTCCAGGTAGAACCA  
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>Sequence 769

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TTAGGAAGGCTAATGTGAACTGATCAAAAGTATGAATTATGGAATGCCTT  
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Table 2

GATTCCTAAATGTTCAATTTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACAGTAGTCTGATAA  
>Sequence 770  
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TGGTCTGCTGGGGACCAACACACTCTGCAACTCTTCTTCTGAGCCAGG  
CTCCCCTACTGCTCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG  
GCTCTTGCATCCCACTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
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>Sequence 771  
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CAGTATAATCTGGGAAAAACATTATAGAAGAATGAATAAATAAAATTTCCA  
TTGAATTTGGAATATGTTGTCCATTCTTCCCTGTAACATAATGCTATCAAG  
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TTTAAGTTATTACTTCTGGGAATTCTAAACAAATGAAACACACCAGTGAA  
TCTTTTTTTGACCTTGGCTGC  
>Sequence 772  
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CACCAAAATTTCTTAAAAAAGGAAAAAACCCCAAAAAAATTAATAAA  
>Sequence 773  
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TAGGTCGTGTTTAGGCAACCCAGGCCACCCAATGGAACCTAAGGGGCCAT  
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>Sequence 774  
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GGGCTGCATGTTATTCCACAATAGGTAATAACCAATAGTATTTAATGAA  
TTGTGTAATGTATGACAACAAGACAAAAAGCAGCGGGACGGTAATTAAT  
TAGGGCAGAACACAAAAAGGCACCAACAAAAAGCCAAAAGCATAAAAA  
GGCATCGGCCAAGTAAATGGTTTGTGGGAATGGCAGTAATCAAGGATTT  
TGGTCCATTATTAGAACATTAATAATTTCCAGGTAGGACCACTTGCTAAT  
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Table 2

## &gt;Sequence 775

GGTACTTTTTTTTTTTTTTTTTTTTGTGAGAGGGGTCATCCTCCAATCATT  
ACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAAC  
AGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTG  
GAAGGTTCTTGATCGGTTCTGAACCCCGACAGCGCGCCAACAGACAACAC  
GAGGCAGTGGGGAGCAACACGCTGTTTTTAACGAGCGCCTGGGTGCAGGCG  
TGCTTGAGCTGAAAATGGCATTACGCCCCAAGTGAGGACAGGGCAGGGGT  
TTTCAATCCCTTTGTAAACAGGAAGTTGTTCCAGCCTGATATGATTGCT  
ATGTAC

## &gt;Sequence 776

GGTACTTTTTTTTTTTTTTTTTTTTGGNCTGCCGTGGAGAGGATG  
GATGGGAGGGGGAAGAACNAGAGCTTTGTTTAGAGGCTGTTGTAGTAATC  
CAGGTAAAGGCTTTTAAATCATGTCCTGAACAATGATCAGCAATGGCAATG  
GAGATGACAGAAACAGAATTAAAGAAGGAATAAAAAAGGCTTGCTGACTAC  
TTGGATGTGGGTGATGCTATCCTTTGACACAAAGGATTTAAGATGAAGAC  
CATTTTTTGGGGTAAGTAAAAGGTTTGGATTTTTTCATCTTACAGCTTT  
TTTTGTACTATT

## &gt;Sequence 777

GGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTA  
CATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTT  
CGGAAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACA  
GCCAGCTTGAGGCAGCTTGAGAAACAGAATTAACATTTTAGAGAATTGA  
AAAAAGAATGGCTGAAAGTAAGCAAGGGCTTAGTAGCCATTTAACCAAGA  
AGAGGCTTCCAAGGGGAGAAGAAGCTTAAAGGCTTTACTAAACCTTTTA  
AGGAAAAAATTTTGAAGTGAAAGTCCAGTTCAAAAGTGAAAAGTAGAACT  
TTTGGGAAAAAAGAACCTTTCAAGAAATTTTGGAAAAGAAAAAAGTTT

## &gt;Sequence 778

GGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGAAGCTGGGAAGTA  
TTCCCTCCTCTTCTATTTTTTTGGAGGACTATGTGAAGAACTGGTATTAA  
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ATAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATC  
AATAGTCCACCATTTCTTATTTTACTTATACTTCCCTCCCCAACACCTTA  
CTCTTTTGGCGGGGGCTGAAATTTTAAAGTAAATCCCAAACATATCA  
TTCACCTTTAAATACTTCAATGTATATCTCTAACAGATAAAGACTTTTTT  
TA

## &gt;Sequence 779

GGTACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAA  
GAACAATGACTCTGGCACAGCCACTGCTTTTCAACCAGGAAAGCAGTTTT  
TCACAGAAATGGCTTTGATTTATACTTTGCACACCATTGAGAGAATAAAAA  
GAAAATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTT  
CATCAACTTTATGTGATAATGATATATAATTTATATACTGAAATTATT  
TTCAGATCCACTTACTGTGCTTAAACCGAAAGTGAATGATAAAGAGCAAT  
GAATTATCTAATGTATCTTTATAATTAAGAAATCAAG

## &gt;Sequence 780

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG  
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AGAAGATGAATTTTGCTGTGATGTTTTTGTGGAAATGAGGGATCCGTTGA  
GCTTCACTATCCACCTTGGAAGTTTGAGTTTGAAGCCATGAAAATTGGTT  
GCCCCATTGCTTGACGGGTTTCAACCGCCTTGGAAATCTGCAACGTTGCC  
CCTTTGTAAGAGGGATTCTTTTACCCGTTCTTAAGAGAAGGCATAACCGC  
TTTTCTGGAAAAACCTAACTTTGTCTTTCAAAAAAGAACCCCTCTGGAG  
ATTTAAACCGTTTTCAAACCTGCTTTTCAATTAAGA

## &gt;Sequence 781

GGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTTAAATAGA  
AAAACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAG  
CGCTGAACCTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAAT

Table 2

CTATCAAATTGGACCCTCAACTATGCATTTTTCTGTGTGCAAGTTATATC  
TCAATTACAAACAAAACAAAACACAAAACCTATGGTTAACCCAAAACCT  
AAACTATACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCC  
CAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGAT  
CATATCCCAT

>Sequence 782

ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA  
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA  
CTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT  
TTTAAAAAATGACTACACTGTAAACAAGGGAAGGGATCTGGGTTTTTTTGT  
TGTTTTATTCTTGTTTTTTTAAGTAGTTCAAATTCTGAAACTGTGATTT  
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC  
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTACATCT  
CCCTCAT

>Sequence 783

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GGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATCTCATGCTA  
CCTCTCCCAACCATTTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATATT  
AGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAA  
CTCAAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCAT  
GC

>Sequence 784

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TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT  
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC  
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAAACAATTCCTTA  
GAAGTCTTAAATATATTGTACC

>Sequence 785

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TCTGGGGTGTGAGTATCCGTGGGTTTTGGGTATCCGTGGGGGTCTGGAA  
CCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGT  
GCTTGTTTTTAAGCTTCAAAAGATTATGTGATCTAGGAGTTGTTAGATTT  
TATTATTGGTCTTAAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTT  
TAGTTTACAGTGATTTCATGAATCGGGCAGCTTCAGACCACAGGAGACATG  
AAGCAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGT  
TAGAG

>Sequence 786

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TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGA AAAAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATTCTGTTTCAATTTTGTGTTTGGTTGAAATATATGAAGGAAAT  
CTGTCCCTCACACAGTTGTGTAGTGGA AAAAAGGGGGACTATTGTAACAGGC  
TGTGCACATTATTGGGGATGATTTTCTTTGATACAACAAC

>Sequence 787

CCCTTTGAGCGGCCCGCCGGGCAGGTACGCGGGATTCTGGTTAAGCAGG  
CATTTGCTTTGCCCTGGAGCAGCTATTTTAAGCCATCTCAGATTCTGTCTA  
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CCCAGGGAGAATCCTGAAGACATTCTTGGCCTACCTTTTACTTTATTTAG  
CTTTTCCCTCCCTCATTTTCATATTCTTTATACACCCTTTTCTTTTGGG  
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AGGAATTAATTTACCTAAATTTCTATTTTCTTTTATGTTTTTAATTCCT  
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CCTAAAGGCTGAAGGGTTAGGAGAA

Table 2

&gt;Sequence 788

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CCGAGGAGTAATCGCGAGGGCTACGAAGCGTTTTCTGAAGATGCATAAA  
CCAGTCGTGTGCGGACCGCGCTTCTTTCCAGGAACATTCAAGGATAGC  
CAAGCTGGATAGATGAAAGTGGGGGTAAAAACCTCCAGGACGGCCTATGA  
AAAAGCTTGCCATTGGGCCCTGGTAGGAAAAAAGCCTGAAACCCAGG  
GCCCCTTTTTGGGAATCTTTCAATTGCCCCCTTGGGTTTTCTTGGCCCTGC  
AACGGGACCCCCCAATCTTTCTTGTGGACCTTTCCTTGGGAAGACTTCA  
ATTTTGCTTA

&gt;Sequence 789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAA  
TCTCCTACCGCCATTAGAGCACAGGAAAAAAATTCAAAAATAAAGGAA  
AAACATGGCTCATATATCTACAGAAAGTCACAAAAATACTATAGGGCACAT  
ATACCCAGGCCTCAGCGGTGGGAAGAAACATACAACCACCGGGCAAAAT  
GTTTGAACACTGAAGACGGGAATTTTTTAGGGCCATNTCAAGACCATGTT  
GAAGGTAACCTGGGAAAGTCCTGGATAGAAATAGATTAAATN

&gt;Sequence 790

CCCTTAGCGTGGTCTCTGCGGAGGTACTCAAGTCGCCCTTATGGAGCCCT  
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TGAAGTAAGTGTTTTTATGTTCCGTGTGTTATAACACCTGATTAAGAGA  
AAACAGAATGATGAAAAAGAAAGCGTCTTAAGTGGATTCAAGTTTCTCAC  
TACATAAAATACAGAAAAGTCAAGGTGGAGGCAAGATTCCCACCCTCTCC  
AGCAGAATTGGCATTCTGCGTCTTACCGGCTTCTGTACGTGGATTTC  
CGCTGTTCCTCATTGGCCCATGGAATAGTTTCATATCATAGAAAGGC  
AAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACAATCTGAGGTGGGGG  
GTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAACAAGTANGACTTTTCG  
GCTGATGGGTAGAAACAAGGACCTTAATAAAGAGTATTCATGTGCTCAAG  
AAGAATAACTTCCTGGCTAATTCTTGTCTGTCTCGTTTTTAAATTATT  
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TTTCCACACACTGGGGCCGTACTTATGGATCCAGCTTCGTACCCAATT  
GGGGTAATATTGTCTAACTGTTGCTGTGGAAATTGTTTCCCTCCAATT  
CCCCCACATT

&gt;Sequence 791

GGTACTAATTCTTTTCTTTCTTTCTTAGACCGATTCTAGTTTGTTGCCTTC  
CCTTTCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCC  
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGA  
TGTGGCCTTTGTCTTAAGAAATGAGGTTTGAAAGCCTCAGTTCTTCCATG  
TTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAAATTAGTGTGAATGCT  
TAAAAAATATTAACAGCTTTATATCATCAAAGTTTTAACAGT

&gt;Sequence 792

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCAC  
AGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTAACCTTTACT  
GGCTACTTTGTAGATAACATTCACAGCTCACCATGAATGCAGCTGCAGTC  
AACTAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACT  
GCTTCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAGCCATAAT  
GAAGTTTATATACAGGCTTAATATAAAAGAAAACCCTAGAATGAACTCAA  
CACAATTATGT

&gt;Sequence 793

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCCTATCTGTTCA  
GTGCACTGAACACCAGCTGCTCTCTTCTCTCTGGCTCCCATGGCAGCCA  
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTTAAGGGAACC  
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&gt;Sequence 794

ACGAACTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG

Table 2

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TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA  
TAGAGTAATCTACTGTTGGATTTTAAATTTTAAATCATATTAAAGTTTAA  
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAAATTTTATT  
AATTAATTTAGGACTTTTGGGAAAAGATATTTTCAGAAGTTCAGTGCATAT  
CAAAAAAGCGAACAACAGAGGCTTCATCTTTTGAAAACCTTCATTGGCTAA  
AAGTGT

>Sequence 795

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TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA  
AGCTCTCCCAAGCTCTAAATGATTAATTTATTAGTTCCTAGAAGAAAGA  
GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA  
AAATTTGGCAGGGTGGACCCTAACCTTGACAGTGTATTATTGTGTCTGT  
TTTGAAGGAATAAAATGGAATTATTTATAAAGTTTTCATTTGTATTAGAG  
AG

>Sequence 796

GGTACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAG  
GGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTATCA  
ATCTGAACCTATATTTTAAAGACCTCACGGCATCACTGAAAGATGAG  
TATTATTAGTTGGAATTTTAGGGATGAGAAAACCTGACCCTCAGGGAGAAT  
AACTGACTTGCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAAC  
CCAGGTGTGTCTGACCCGAAGCCTGATCTGACCTCTGACAGTCGTGATA  
AAAATAAT

>Sequence 797

CCCTTGGCCGCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATT  
ACCACAATAAAAAAGTTTAAATTTATTATAGGTGACACTGTTTGCTCAC  
TGAGGTGAGGTATTTTGGTTTTTTTTTCTCTTATTTTATTTTGTAC  
CAATGGATTACGTCACCAAGGTGATTTTAAACAGCTTTATTGAGATAT  
ATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAGTTAAATGTT  
TTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCAAT

>Sequence 798

ACAATTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC  
ATTAGATATGATTTTATCTATTTAAGATAATAGGACATTGCTTGATTAC  
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAACTAAAGGA  
AAGTTTTGATTCTTATGAGAAAAGATGAGATTTCTTTAACTGGAAAAT  
TGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA  
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTTCTTAT  
A

>Sequence 799

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC  
TAATCTAACTGGATTCTCTTCCCATTTCTCATTTACTAGATTATAAT  
GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTT  
CTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT  
GATTCAAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAACAGTT  
TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG  
CTTAACCCTTTTGCTCTTTATTTTGATTTAAGCACTTGACCC

>Sequence 800

GGTACTCTCTATTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAAAC  
TTACATAGCCAGCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAG  
ATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAA  
TTTTCCCAAATTCTAAATGAATGGAGATAAAATGCTATATAATAAATATG  
TTAGAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATA  
ATTATACTCACACCACAGTAAACCTCTGGTCACCTGTTTTGGGTTGTG  
GAATGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATAT  
CACACACAGAAATTAACCATACAGTAAACAAGAGCGAGGAAGTCCTGA

Table 2

TGGATGGTAATGCTGCAACTTGGCACAGATATATTCAAGTAGCTTCCCAGG  
AATACAAATCTCATGTATTAACCTCAATGTGGCAAGCTATCTCAGATTTGA  
AGCCTAAATACTTAAATTTTACTTTAGAATGAGTACCCTGCCGGGGCCC  
GTTGAAAGGCGAATTTCCACAACTGGCGGCCGGTACTAGGGGATCCAA  
GCTCGGACCAACCTGGGGGAATAAGGGCATAACTGGTTCCTGGGGAAAA  
TGGGTTCCGTTACAATTCAACACATTCCAACCGGAGCCTAAAGGTAAA  
CCCGGGGTGCCAAAG

>Sequence 801

GGTACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGA  
CTGTGAGTTTTCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCT  
TAAATGCTTGTAATTAGAAATTCCTGTAAGTGTATTGGTTTTGTCAAG  
CAATCTGTTTGGGGAACCTTGAGCAACTGGGGCACTGCTGGCTAGGGTGAA  
GTTTATTTAATTTGTTTTATGACATTCTTCATCTTGGAATGGGGTTTT  
CAAATATTGCTTTCCAGGCATCATTACTTATTGCTGGTTTTATTCA  
AGATTGGGACTAGCTCAAGGTGCCAGGGAAGCGGTTTGTGGTGCTTTATA  
TTAAAGTCGTAATATCCAAAAAATTGTCTGATTGTATGGGGTATCTTGG  
ATGTGGTACCTGGCCGGGCGGTCCGTTCAAAAGGG

>Sequence 802

CCCTTTGAGCGGCGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGA  
CCTGCCTCAAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTTATAGCTA  
TAACTAGGGACAATATTGCTGTCATTTTTCTACAAATGTCACAAAGA  
ACAAA

>Sequence 803

ACGCGGGGGGTTTCAAGCTGTCTTACTTTTAACCAAGTGAATGACCTGC  
CCGTGAAGAGGCGGGCATGACACAGCAAGACGAGAAGACCCTATGGAGCT  
TTAATTTATTAA

>Sequence 804

GGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGG  
CTTTTCACTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGG  
CTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTA  
TTCCAGAGTCTGGAGGCTTCTCTTTTTAAAAATTGCTAGGCTCCTGCCAA  
ATGTTATAATTTGGGGATGTGAGTTCACCTAAGAAATCAACTGACAAGAGG  
CAGATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAA  
AAATTGATTACCAATATCCCAGTAGGGTAGAGATGCTTATATACCCAC  
CTCTTAAGAGAGAGGGAAGTGGATGATTTTAGGGGAATAGTAAATACTTT  
NTATGGGAACCTCACTGGGCTTGAAGAATAAACAAAAGCCTGGGACAAAG  
TCTGTTGGGCCCCACAGAACAGACAGTGGTTTATGACAAAAGTCTTGTGAG  
ATGTTATGACAGACTTTCAGCTTTCTTCTTTGTATATGATTCAGTTAATG  
AAAAGTAGGGAAGGGACTAGAGGTAAATGGTTTTTTCTTTGATGGGGCC  
CAACCTTAAACCGGATAAGAGGACCTTAGAGAACAAAACCTTATTCTGGG  
CTTTGGGAGAAACAGAGGATCCAAGACAAAAGACGAAAGTTGGATTGAGA  
GAGACCCTGGGCTGCTCAATTCACATGTCAAAGGGCATATTTTGGGT  
TGGGATTTTAAT

>Sequence 805

CCGGGCAGGTACTATTACTAGGTTTCAATGTTTCCAGAGGGGTGAAACGGG  
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCAAGAAGCTAAGCT  
ATTCTCTTGTAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATAC  
AGGTTGAGGAGATAAAGGGGAGAGAGGCTGCAGTGCTAACAGGAGGAGC  
TGGGATTCATCTGGCTTGTCTGATAGGTCAAGTATGCTTAGAGATACC  
CATGAGGTACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATTCT  
TGTCAGTGGGCGCAGCTACAGTCTTCTGCGCTGGAGTGAAGTGGAGGCT  
GTCCCCACGTCCCACTTCAGTGAGGCATTATGTGCACCCAACACACTTT  
CTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATG  
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC  
TTGTTAGGAATGCAGAACTCAAGCTCCTCCCTACTGAATCTAAAG

Table 2

## &gt;Sequence 806

GGTACACATATATACACACATATATAGATATATACACCCACATATATATT  
TGCTGACATTTTAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATGTA  
TGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAA  
TTTTCCAAAGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAA  
TCATTTAGCCATATCTAGAAACCAGAATAAACAAATGCCATAAAGCCTATA  
GGAAAATGCAGGTCAGATTCATAAATATTCATGTGTTTACTTTTCAGTACA  
GGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAA  
CTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCG  
GCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCCTATT  
GTTGATATGGACTCTAAATAGGATTGCGCTGTTATCCCTAGAGTAACTTG  
TTCCGTTGGTCAAGTTATTGGATCCCGCTACCTGCCCGGGCGGCCGTT  
AAAGGG

## &gt;Sequence 807

AATTCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA  
CCGTCCTGTCAGAAAGAGCATCAGACGTTCAAGTAAGAATGCAAAGGGTA  
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA  
GGGCTCTCTAGGCCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA  
TCTTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG  
TCAGATCTATGAAAGGAAAGAACTGTGAACTTGTCCCCTTTTGTCTTCTT  
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA  
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC  
TAACTTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA  
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGTACC

## &gt;Sequence 808

GGTACTATCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGAC  
ACTTTTCATATATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAAT  
TCAGTGGCCAGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAA  
AGTAGCAACTTCTAAGTTTCACTCTCCCACTTCCCTAGTTATTTTCCTAA  
GGCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTAAA  
ACTCTTCAGTTCATATAATNTAGGGTGTGACTATTCATAGATACCTTTGA  
GCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAATG  
CACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTGGGAAAAGCCCA  
TCTTTTGATATGAACCAATAGGGCAGTTTATGTTTTAGAAAATAAAGAAAGT  
CCACTGTTCTGCTTTTCTTTTTTACACACAATAGGTAAGTCTGCTCTAT  
CTTCTACAAAGAGTCCCAGTCAGTTTCTATGCCTACCCTCTTAAAAGTT  
TCATTACACAAGCCAAAACAAATTCCTCCAAAAAAGGATAATGAATCCTA  
TTAATGAAAAGTGGTATTTTCTCTAATCATTTNTAATAAAAGGAATGGGG  
GATCAAATGGCATTAAAGCTCATTTTTGAAAACAGAAATAAAAATAAAATT  
GCAAATATTGTAAAAAAATTGACAGATCACAGCCCCCTGTTGTAAGGCT  
ATTCCCATTAAGAATG

## &gt;Sequence 809

ACTTTTTTCTTTTCTTTTTTTTTTTTTTTTGGAAAGATATTGCATACCTAT  
TAGAAAAGTCTTTTAAACAATTAATAATGAAAATGACTGACAACTTACAC  
TATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGA  
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATTTGGATGTGAAAACCA  
AATTTTACAATGCAGAGGTAAGTGTGAGTGTTTAATGGGATTTTCATATT  
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA  
CTGAAGCAAAATCGCCAACGTGACTGTAAATTATTTGAAAAAATCACAAAT  
TTCAGTTAAAAATTGAATAATTTTATTATAGGTCTCATAATCTTTTTCAGC  
TTACATGGAATCAATGTGTCTTGATTTTTATTCTCGTTAATTTTATAAGG  
CCTTCATCTCTTTTCGGTAAATGATTGCCCTCTCATTCATTTAATGGTG  
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTCGGGATTTTAC  
AAAAATTGGAATTAGTAGATCTAACGCTTGCAAAAAAATTAATATCACA  
TGAAAAAATACTGACAGNTGAACTTTACACATTAAATTTTTTCCAGGTAG

Table 2

TAGGTTGGCAGCCAGAATAGGTGCTGAGTTTGGTGAATGGTTTTAAAGC  
TCTTGGGAAAACAAATTTGGCAAAGGGGAAGTACTCATTATTGAAGTTCT  
TTTTTTTTTACCTTAAAAAAAGGATAAATGAACTTGCCAAATAAAAAAA  
A

>Sequence 810

CCCTTAGCGGCCCGCCGGGCAGGTACTCCATTTCTTTTTATTTCATATTAT  
TTCACCAAATAATATTCCACTGTGTAGATCTATCACATTTTCGTTTAGCAG  
TTTATCAGCTGGTGGACAATTTGGCTGTTTCCATTTTTTGGCTGTTATGA  
ATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGG  
TTCTCCAGAACTAAGCTAACTTGTGTTGAAATGTAAATTCCTCAGGTATT  
CTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAATTCT  
TTTTAACAAAGTCCCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAAC  
ACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA  
AAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATGCATCAATGCCTGATT  
AACANAACTATCCCAAATGACTCTGCANAAACCACAATCCTGCACAAAG  
GTCATCACAACCTTACACAAAAAATATCTTCACAAGGACATCTGTCCAGC  
AATTGCCTGTCCAATCTCAGACTGGTCACACTTGTACTGATCCTTGTN

>Sequence 811

GGTACAATCATTAATACTATGTTGTAATACIGTTTGTCTTTGTATCCATT  
CTGGCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTTATAC  
CAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTA  
TTGTTC AATTATTTTTTCATCTTCTGGCACACTAGGATCTATAACAATG  
ACAATATCTTCAAAGCCATTATTATTC

>Sequence 812

GGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAATTTAATAA  
ACCCGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTCTGTTGTGAA  
ATACAAATGCAAGGAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCT  
TCCATAAAGAATAATTTGTATTTATTTTAAAGGGTTTATTTTAACTTATA  
CATCAGCCTATATAAAATACATTTTCAAATGATCTGTGCTCTTTAAATTA  
CCAAAAGCAAATGTTAATTTTTTTTTTCCCTCTAACAGATAACAAGTTTAA  
CTCCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGAAGCCGAAT  
TAAGCAGAGGAGATGGGGATGTCGATTGGGAACACCCCGAGCTGTTTAC  
ACAAAGCCTTAAATGGCCACAAAAAATAGTATGGGGATAATTAATAAA  
TCCTACTGGCCTTTTCTATAACCCCGGAACTTATTTAAAAAATCCGTGA  
CATATTACAAGAGATTTTCTCTGG

>Sequence 813

CCCTTGAGCGGCCCGCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTC  
CCTACATTACTCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACAT  
AATGGAAGACACTTCTTGGGTGAAATACTCCAGAGTTATTTTCAGTTCTCA  
CTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCACTCTT  
ATTACAAATATCCCAGCCTCTAGAACAAAGGCTGGCACATAGTAGATGCA  
CAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAAACTCAGGTTTCTCTGTGGGTTTCAC  
AGTTTACTGGTCTTAAAGAGGAGAGTTTCTTAACTTGCCTTATGATAAAA  
ACCACCTTCAGCATTTGGTAAAAATTACCCATTCTGTAGATTCTGAGTC  
AGTGAGCTGAAGTGGAGCTGATGAATCTGTTTTTTGTGATACTGCTGCTG  
CTGCGGTTTTTAACACATGCTTCAGGTGGTTCTAAGCTTAGGAAACCTTG  
CCCAAGGATACCATCTGTCTCTTGGGAAACTGTCTCTAT

>Sequence 814

CCCTTAGCGTGGTTCGAGCCGACGTACTTTTTTTTTTTTTTTTTTTTTT  
TATAAAACATTATTCATATTTTATCTTATTTTAAATTCACATTTATATTAA  
CTAATTTTTATCAAAAAACCAACAACCAAAACAAAAAATATTACAACAAA  
CAGAGAAACGAATCAAACCAAAACCAAAATACTTTCTGGAATTCAAAT  
GATACATTATATATACCTATCAAGACAACAACTACTAACTACCTAAACT  
ACAAATTATCAAAAAATGACTCCTGTCTATATCAATAAAAAAAGTCTA  
TTAAATTTGAGTATTATAACACAATACAATGTCTACAGCTTTT

Table 2

## &gt;Sequence 815

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC  
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAA  
GGCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG  
AAATTTTATATTTAATCTTCTCATTTTAAAGTGTTGGCAATGTATTGAAG  
ACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
TAGTCCACAGC

## &gt;Sequence 816

GGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCTGGTGTTACATAGGCCTCAATTTTTTCACA  
GAAAGATTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATA

## &gt;Sequence 817

GGTACATGTAATAGACACTATGCTACAGCAAAAGCTTTTCTTATTGTCTT  
TAAATTTTCTGGGTGCATAAACTATGTNGGTAACTCTTTCCCAATTT  
TTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTCATTTAACAAA  
GGCAGATAGAAAAGGCCTCAAATCCCTGAGGACCAAAAATCCCAACACATT  
TTCAAAAGGGAGAAAATTTCTTTAAACTTCATGGGAAAAGTATTTTAAAC  
ATAATAGAGAGGCTTTATGCAGT

## &gt;Sequence 818

GGTACTT  
TTTAACACTTTCAATTTTGAACATTTGTTTTTTTTTTGAGGGAAACAAAA  
TTAAATTTTCAATTCTAATTTTTTTTTTTTTTTGGACACATGTATTCCTTT  
TAGTGGAAACAAAAGGAAAAATAACTTTTTTCTCCAAATAGTCGGCCTGG  
AAAAACCAAAATACAATGCAGGGATGGAATCAAATTAACAAATTTTTTTT  
CCTACGGAAACAAGAGCCTTTTTTGGGTATTTTACCAACACCTAGGAAA  
AATTCCCTTTTATACAAAAGTCATAGGGATTTTTTCTTAAAAA  
ACAAGGTTCTTGGGCTAAAATAAATAGGTATTACTAACATAATTCGGGAA  
CACGCCCAATGCCCAGATAATAACGGGAACCCGGCCCCCCCCCAAGCGGA  
ATAAAACAACCCCTCACGCCCCGGGAAAGGGGATATCGGCTTTGACCCCT  
TCTCCCTTACACGAGGAAATAATTTTCCGGCGAAAAACGGGTAGGGGTA  
AAAATTTCAACAAAAATACAAGGCGCGGAACATAAAAGTAAACCCGGTG  
GGGCTAAGAGGGGGGCAAAACCCCATGGCAAAGGGCCCCCAAGGGCCGAAA  
ATCTCAAGGGCCACGGTTGTGGCTATTCCAAAAACACCCCCCCCCAACAGG  
AATAAAAATTTCCACTTAAGGAGG

## &gt;Sequence 819

GGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCTGGTGTTACATAGGCCTCAATTTTTTCACA  
GAAAGATTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATT  
TTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGA  
ATCAGGTGAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTTAG  
GAGAATGTGTGGTCATCCTAG

## &gt;Sequence 820

GGTACTAGAATTAGTTCCAACCTACTGCTGGTGATAAACTCACCATCTACC  
TTCAGTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAGAA  
TCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATC  
TACTCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCT  
CTAATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGA  
TAAAGATAAAATTTGCTGTGGTTTGGCATCTTGTTCCTTTCTTAAAA

Table 2

CTTAACAG

&gt;Sequence 821

GGTACTGGAAACCAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGC  
CTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAA  
AATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAA  
TTAGTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATG  
AGCCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATA  
TTTCAGGAGAAAGTAAAAATCTAGATTTTATCTAAAAATCTTTTAATTT  
TTAAACAGTCACCTGATTTT

&gt;Sequence 822

CCCTTGAGCGGCCGCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGA  
CTCTTAGAGACCATAGTCCAGCCTCCCACCTTGATACTGAAACACGTTTGT  
GAATTCATGGCCGATGTCTAACTTCCCTCACCACCTTTCCGATATGGACA  
GTTCTCATGCCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCCTCCCTTG  
ACTGTATGCATATAATCAGCATCTTTCCCACTAAGTGAAGGGCCAGAC  
TCGAGCACAGGAGCACAGCACCCCTTAAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCATTTG

&gt;Sequence 823

CCCTTAGCGGCCGCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACA  
GAGGATTCCTTGAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGC  
TTCCAGGAGCGTGGGTCTCCTACGTTTGTGTTCCCTGGGAAGAATCTTGA  
CTCAGGCGTGGGCAGCTGGATGCCTGGGTTCCCTTAGGCTTCCCTCCAGGCA  
ATGTAGTTGCCTCTTTCTCTCCCGCGTACATAGTAAGTGTATGATAGAT  
GTTTGATTTGTAAATTACAAATATAAATTATCACCCCATTTCCATTTAT  
TTTCTTGATATATCAAAATGTGTTGA

&gt;Sequence 824

GGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAA  
TCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAATT  
GGGAGATATTAGATGATGACATCTAAGTATTAATAAAGGAGATATTAAA  
TGATAGTTGCCTCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGG  
TGTGGGAAAGGACAGTTCTTTTAATGGCTGGCTGACCCAGCCTCAATTTT  
CTTGCAGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTG  
CCAACCCAGCAGACCATAG

&gt;Sequence 825

GGTACCTCTCATGGCTTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATC  
AGTGGTAAACTGTGCAAGCTTTCTTTTTATCATTAGGAAATGTGAAACGT  
TGGACAAATTTTGAAGTTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCAC  
AGTTAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA  
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGA  
GCACAGTAAGTATGCATTGCCGAGAGAAACGTCTTGAAGCTGCTTGTCT  
CATGTGTATGATGTGC

&gt;Sequence 826

GGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGG  
AACTGTTTCCAGAGCTCAATAAGGTACGCGGAAAGTCAACTCAGTTACC  
TCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGT  
GACATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATG  
ATCTTTCCTAATTTTCATGAGCATCTTTTTTCTGATATAAACCAGGGAG  
GGAAAAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACC  
TGCCCCGGCGGAC

&gt;Sequence 827

GGTACATATATGAAAAGCCAACATTCTAAAGTAGAGTTCACTTAATTTT  
TTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTA  
TTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTAT  
TTTTTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTT  
TTTAGGGAAAAGGAGATACTTACCAGGAGGATAAAAAGGAACAAGAGG  
GGAAGGGGAAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGAT

### Table 2

GGAGGCACATTNT

**>Sequence 828**

[illegible]

**>Sequence 829**

ACTCACAAAGCAATAACAGATTTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAAATTTAAGTTTAA  
ATACTTTTCAAGATGTATTTTTACTACTGCAAGTTTTTGGTCTTTAAATG  
TCAAGTAGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA  
GTTTTTTTTTTTTTTTTTAATTTCCATATGGGTCAAAAGATCCAAATATT  
TAAAAATCTGGCTCTCTTTCTTCTCTCATAAAGTGAAATTATCCTCTTT  
TTTGTTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTA  
ATGCTAACTTTGTTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCT  
CAACAAAAAAAACCTTTAATTTTGCCATTGAAACTGTAGAACTATGCCAT  
GCTTTTATTAGAAGCAGTGCTCTGTGTAAACAACAAGAAATGGTGTAAAT  
GAATTGGGATGGGGATATTTACTGTATGACAACACATTTACAGGTCTGTA  
ATGCAAGGATGCAATTTAAAAATGTGAAGTAATGATGGGTTTTGAAATAA  
GCTTTAAATATATGGACTTGAGGGCTCCTGGGGAACATTTTTTACCTAG  
ATAAAAGGGTT

**>Sequence 830**

ACAAGCCATTGAATAAGCCTCTTCCTTTTTTTTGCTCAAACATTCCACAT  
CCTTGTGGATTCCCCTGCATTGTTTGTTTTATATAACATTTGATATTTGT  
TGTAGCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCT  
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAAGTGCACCTTCTATAACTA  
TCTAAATTTCTATTGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCAC  
GATTGGCTGGTGCATGTTTAGACTTAAATGTCATATCCTTGCATGTCTCAA  
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA  
ATATATGTGTCACAAAGTCTACATATGTTACATTCTTGGGAAGTCTCCTT  
AAATGTTTCACAAAATGTCAACAAGCTTGTTTTGTTATTGATATTTCCGA  
GAATGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA  
AGAAGATGCTGTATCTTGAGAATTGAAAAATGAGAACTGACATGGTTTG  
GAAAATCATGAAAAGTTTATATAAAGGATGCATGTGTAGGAGCCATTTAA  
ATTCATAACAATATGTGCCCTTCAGCGTTTAAATCTTATGAAGGGGTTA  
AGAGATAAGTCTTTGGAAGTGGACAAAAGGATTGAAATTTAGGTTCTGTG  
GATAATTAG

>Sequence 831

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGCTGGAAAACTGAACGTGA  
AGTCAACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCA  
ATCAACCTTTGCTTGTTGAAGGGTAGTTATCTAGTTTCCTTCTTTTCTT  
TTTTGGAATTTGGCTTTTAAAGGCTTGATAATCTTTCTAGTCTAGAGCA  
TGTTAAACAGAACAGAAAGGAAAAATCAGGACTCAGTTTACTTAAATTTAAAGCA  
AGCAATGGTTGCTGCAAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC

Table 2

TCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAA  
CAGCTGTTTTTGCACCTCTCCCTTGTTTTAGTAGCTGAGTCTATAAAAAA  
ATACCACTCGGGTAAATGCTAATACTTAAGCCATTTTTTACTTGATAA  
CATGCATAAAAAAGATATTAGGGCTTTCATGGCTTCTGGCCCTTTTGGCTA  
AAATCAAAGGTAAAAAGAATGCCATGGTTCAAAAAAAAAAAAAAAAAAAAA  
GTACTTTGGCGGGAACCACTAGGGCAATTTCCACAAATTGCCGCCGTT  
TTTTATGGATCCGACTTGGGTACAACTTGGCGTAATAAGGGCAAACTG  
GTCCCGGGGAAAATGTTTTCGCTTCAAATTTCCCAACAATATCGAACCGG  
AACTTAAAGGTAAACCTGGGGCCCCAAG

>Sequence 832

GGTACCCTAGGCAGGGACAGTCAAGAAACTTCATGGATCTGTAGTGTA  
AGCTAGGGAGAAAGAGGAGATCCTGTTTGAATTTCTGTAAGTACGCT  
ATCTCCAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGA  
TGGAAAGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTTT  
AACATACACTCCCTCACCCCTACCCNCAGCTTAGAAGGGCAGGAACCTGC  
TGTCCAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTG  
ACGTCCATGAGCCAGCTGCCCCCTCTCACCTCACTCTATTTTAAGTCAG  
TGACACACAATCATGCTTTCCTTTTTTGCACTGAAGGAGTGATGTCCT  
CCAGACTGAGTCTTATTAGAGGGGATGATGGAGTGATTTTAGACCTGG  
GAATGGTCTAAAACCTTTTTGGCTTAGGCTAATCATTGGATCCTTCAAGG  
AAATTGGATATTTTGAATGCACATCCCAACCCGGGGTCCCTATCAATGAA  
CCCTTACCTTTAAGGCACCTTGTGGTTGAAAGGCGGGACAATGAAGCCC  
AGAATGACTTCTGGTTCCTCCCTTTTGAATAAAAGGTTGACCCAAAGCT  
TCCACATAAAATGTCCCTGCCCCGGCGCCGTTTCAAAGGCGAATTCTCA  
CCAATGGCGGCTTCTTTTGTACCCC

>Sequence 833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGT  
CCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAAA  
CTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCA  
TTTAGAGAGACTGTTCCAATAACTCTCATTTAATTGGTGAAAAAATTAAA  
TATTGGTTTAGATACTTACCTAAATATTACTAGTTAAATTCAAAGTAAAT  
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTAAAAAGTAGAT  
TTTTATTGCTTTTCTTGAACCTAAGTGTTCATACAACACAGGTAGTTT  
TATTTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAAATGTTCAACA  
TCAACGCCTGTCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAAC  
ACAATTCACAAAATAAGAAATGGTATTTGGTCACTCTGAGTTCAATCT  
GTGCTCTAGTAAATATACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTC  
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GTAAAAATAAAGAN

>Sequence 834

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TGTATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTT  
CCTCATTGCCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCT  
CATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCTG  
CAGACTGTGGATAGAGCCCGAAGCCTCAGGTTAGGCAGCTTGCATCCAGC  
TGTGAGTCCCAGCTAGGGGAACTGAGTCAGCCTCCATCACTCCGTGTCTC  
GGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGTAG  
CTGTGAGTATTAATAACGCTGATGCAGGGCAGGTGAGCCCCCAATTG  
GGGTTTAGCTTGGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCAAGGG  
CTTCAAGGGCTAGCCAGTGGTGTAGCAACTTTTCTTGAAGTGGCAGTGT

>Sequence 835

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATCAATGGAAG  
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TTGTGGAGACTCCAATCACATGTCTCCACTCTGCTACCTGGGCCCAA  
ATAAGGGAGGAGACACTCAGAGCCAGGTGTTCCCTTGATGGGAATGTGA

Table 2

TCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTTC  
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAGGAATCATGAGGGTATTTTC  
GTTACTTTACTTACTTTACCCCATCACAATCAGTGCACCTTCCTAGAAGG  
GAATTTTATTTTGATTATCGGAAATTTACAGCTTCTCCTTCTGCAACTTT  
AATTTTCTTCTCCTGTCTTACTATTTTCTTATTACAAATCTCTTTCT  
GGGTGTGTTGTGGGAATTCCTTAATCTATTTTCCCGTGGCCTCTCAATCC  
TCTTAATTAATTATTGTTCCATTGTTTCGATCGTCTGGGTGGCATTGTGT  
GTTTTTACCTGGCCCGAGGCGGCGCCTTCAAAGGCCGAATTCACACAC  
ACTGGCTGGACTCTTATATATGGTACCAATCTCGATACCTNGCT

>Sequence 836

GGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATCTAAAATCAGCCT  
TACGTGGGATCTGCCCAAAGTATTATTTGCAAAGTATCATTTTCAGTTT  
TAACTTTTAGGGGAGCAGGGTAGGCTGGGGTGACACACAAATCTAGG  
CAGGCAGAGAGCTTGCTTTCCTCAGCTTCTTACCCTTAGTAAGACCACTT  
TAGTAGGACACTTAAGTATTTCAATCAGCGGATTTGAATCTGACTTCTTG  
GATGCATCTGTATCAAACATACCATTAGATGTGTTACAGAAGTACGAGCAG  
CATATCATTAGATGTGTTACAGAAGTACGAGTCTACTTACAATAATTAATT  
TAATTTCAATAGCGATCCCCACCATTATGTCTAGGCATCTACACAATT  
GGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTNTG  
CTTTGGCATGTTTTTACAATCCCGCGC

>Sequence 837

ACTTTTTTTTTTTTTTTTTTTTTTGCAAACCTTAATAGGTTTTCTTAG  
CTTGACAACTCATTCTCTATATTCACGAACATCTCCTGACTTGTTCCTTC  
AGTGGAGATACCCTTTTCTAGCCAGAGTTGGCAAAGTAGCAATAGCATG  
CATTTGGCTTGTGTTGAGAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGG  
AGGTCTGTTATTGTCTTGGTAGCATATGCCCTTATTATAAGTTTGCCTCT  
TTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAA  
GAGAGTGTATGTAGAAACAGTGACAAGTTAGAAAATCACTTAGGTATCA  
GATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAATTTATAA  
CAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAAGT  
ACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGGAT  
GTCAGACGTGGTTGAAAATAATTAAGTCTGGTTAAATAAGGCTTTTTTC  
ACCCTAGCTTACCTA

>Sequence 838

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AAGAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGAAAACAGC  
AGCAAAGTCCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAA  
GAACAAAGGCCCTAATCCACCTCCTCACCCGCGTACTTNTTTTTTTTTT  
TTTTTTTTTTTTTCCAGTTTCTGTTTCAAATTCCTTTATTATACATCATGGT  
TGCACAATTTGAGGCTGGTTAAATACAATTGGTTTTTCAAATCTCTTTGA  
ATATTTTCTGGCTTATTACATGCAAATGACCATGAAAATATTTGGCATTT  
TAAATTTCTGAAACTCTGAATAGGCACTTGTCATGAAGGAAAACATTACCA  
TTCATAGATATCCACATGTAGAACAGATGCTCCAGCACATGGTGGTACC

>Sequence 839

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CGGTTTGGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGAGT  
CATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAAT  
TGGGTTGTCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTTGGATC  
AAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAGTTCTCCG  
CCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACA  
AGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTG  
GGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAACTGGA  
CATTTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATC  
CACTCACCATTTCCCTCCTCGTTTCTTCTTATCTAGAAATAAGACTCTGACG  
CTCTCTTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTGATTATTT  
GCAATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTAGCAGGGTATAGTC

Table 2

C

&gt;Sequence 840

GGTACAAATAAATGTATCTTGGGTTAAGTGCTATAAAGGAAAAGAACAGG  
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ACCCGGACTTCCAACCTCTAAATCTCTGTCTCATTTACCTCTTTGTAAAT  
AATCATTGCTATTATGTTAAATATCACAACACTGTCTTTCTTGTTTAC  
CCACTACATTCTAAGCTTGGTGCTGACATCTTTGTATTTATTATATAAAA  
TTCTCAAAATTAATCTGCCCCGTTAGGCTTTCTTATCACTTATTTCAAATG  
CAAAAATAAGGTCCAGGGAAGATAATTATGTAACCTGTTTCATGATTGGAG  
AGCTAATAAGTGTCAGAAATGAATTGAACCAAAGTTGGTGTGACAAAGCC  
TCTGTTTTAAGCAAAAGGGAAAAAAATTCTCATTAACCTCAAGGATTAT  
CATFAGGAGTCCAACAGGGTCCCAATTTGGGAACACTATTTTCATTATC  
ATATGGCAAATGGTCCACTATGTTAGATGAGAAGGCAAAAAAAAAAAAAA  
AAAAAAGG

&gt;Sequence 841

GGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACTTATTATTATTC  
CTTCCTTTGTAGAATGTATCNCACCTAAAAGTGTTAATCCTGACTATAAC  
AATTATTTGTTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTT  
TCAGTTAAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCA  
CTTGGAAGTATTTTTTAAAGTGAAGTCTATTTCAGACTGCAACCAGTAAA  
CTATTTATGCTTATAATTTTTCTCAGGATGGATTCTGTTCCCTTTGTTGC  
ATTGTTTGTTGTTTATTTTATGTGATCTTTTTTAGCTACAAGGTGGGAAA  
TGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAGTAAATATGTGG  
AGATTTTTGGCCACTCTTGTAACTACTATCTGAAGTAGTTTTAAATATTT  
TTTAGTTGTAAGAGGATGTACCTGGCCGGGCGGGCCGTCGAAAGGG

&gt;Sequence 842

GGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCACCTCACAGGCTCA  
AGTGATCCTCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGC  
CACCACACTTATTAAATGTAGATTTCCCTTTGTAGATGTAGATTTCTTTAC  
AAAGTGACAGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATA  
ACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGGGTGGCATATTCTAG  
TCTCCTCCAGTCATATTTTGGGGTGGTGTGTCCTGAGCCCCAACAAAGATA  
GGGTTCATTTTTGAATAATTGCTCTTCCAGTCCCACTGTTTCATCTCATAAG  
CCCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAGGGGA  
GTAGATGTTTGGTGGACTAGAAATGCAGGGAGGAGAAAAGGAAGGCTTG  
TGATGTCAAGGATTTTTTAAAGCCAACCTATCTCACTGTGGTCTCTTAATA  
GTCACCCCTGCGGCTGCTCATTTTCATGAAGCTTAAAGCTGATAACTTGGG  
GGACAAAAGGGTTTGGGTAACAAATTAATTTTTGTCTCCGGAAATACCAA  
CCATACTTTTCTGGCTGGCTTGAGGAAAATTTAACTGGGGATTAAATTCTG  
GCTAATTGGTTGGGAGCCCCCANTAGATTTTACTACAATAAAGAGGTCTG  
TCCCGGGGGCCGCTAAAAAG

&gt;Sequence 843

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GTAGACCCTGAGTGAAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTGAA  
AGTAGAAAAGAACCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCT  
AAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGA  
AGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTCAT  
TTTTCTCTCACTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACA  
ATAATGAAAGCGAACCCCTGTTTCGCTCTGTTTGTGGAAAGGCTCATTAAT  
ACCTGCCCCGGGCGGGCGGTGCGAAAGGG

&gt;Sequence 844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTG  
TGCTATACTTACATATCCCATAATCTTCAAGACCCCTCAAGACCCACAA  
AGTAACACAAAGCAGGAACTAACTCAGATTTACTTGCCAAAGGTCACAC  
AGTTAATACATGGTGAATCAGGACTCAAAATCAGGCCTGTGTGACTCCA  
AAGTCCAGTGCTCTCTCACTTTACCAGGTAACCTTCATAATACCGGATT

Table 2

GGAAATCAAACCTGTCACCTTACTTTCTATGTCCCTGAGTGAGTCACAACT  
TCTCTCAACCAGCTTTTTTCATGTACCTTGGGCGCGACCACGCTA  
>Sequence 845  
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AGATTGAATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAAC  
AAATCAAAGCTGATCCCTTTTTTCAAAATTTTAAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGG  
TGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCTGAGAAGAGAGAAA  
TAGAGGAAAAGTTGCACAACTCTTCAAGCAAGACCACCTAGTGATATAT  
AAGGGATATGTTGATGATCCTCGAAACACTGATAATGCCTGGATGGAAAC  
AGAAGCTGGGAACCTACCATGACGAAACAGGTGAGATAATGGATAATCTTA  
TGCTAGAAGCTGGAAAAGATGCTGGAAAAGGTGAAATGGGTGGACATCAA  
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TATTCTTGAAAAAAGG  
>Sequence 846  
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ATAAAATGTAAAGTTAATATGTGATGGCTAAACTCCTAAGGGGATAAGG  
AGGCGCTAGGAGAATAGGCAGGTGGAAAAGGGTAGTCGGGACTTGTCCA  
GATTCTTGTTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCTAC  
AAGACA  
CACACACCCTTGAGCATTATTAATTCGCAGTTGATGGTGCATAGTTT  
GCGGAGTGGGTAAAGGATATGTTACTTTTGTAAGTACCTCGGCCGCGACC  
ACACCTAAGGGC  
>Sequence 847  
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ACCTCCAAATATCTCATCAACAACCCACTAATCACCACCCAACAATGACT  
AATCAAATAACCTCTAAACAAATGATAACCATAACAACTAAAGGAC  
GAACCTGATCTCCTATACTAGGATCCTTAATCATTTTTATTGCCACAAC  
AAACCTCTATGGACTTCATGGCTTATTTATTTACACCATCCACCCCACT  
ATTTATTAACCCCTAACCATGGTCCATTCCCCTTATAAATCGGTCTGCAG  
AAATATTTTGGTTTTCCGTTCTAATATTAATAAATTCCTAATCCCCAT  
TCATAATAATAAGGTAAATCTTCATCTCTTAAACCCCTCTGGTTGTTTA  
TAATTGAGAACTATACTTCTACTTATTTAACCATAATCCTTGTGCTAC  
TTGCCCGTGCTGCACTTTTAAAGGGCTAATTTCAACACTACTTGGCTGA  
CCTATCCTTGTTGAAACCGAGACTTGTTTACCATACTTTGGCGTTAATAA  
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CAAAAATACTATCAAGCCTGGAATCTATAAGTTATAAATCACTGTGGTGT  
T  
>Sequence 378  
TCTTTCCCTCATATCTATGTTATTTAATATTAATTTCTTTTAATTGTA  
TTTATTTATTTATGTATTAATTATTATCATTCTATTCTTAATATATAAT  
TCANNCCCCNACATGGTTTATCTCTGAGGCGGCTTCCGCCCGGGCAGGTA  
CCAGGTGGTGAACCAACTGCTGAACGCACAGCCTACCTCCTGTATTACC  
GCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGTGTGTGCGCCAGTG  
CCCCTTTGTAGGACACCACCTTACACTCACTTCCCGCCTCTCTTTAGTG  
GCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAAAATGGGGCTTAGAAT  
TGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCAACAAACACGAGCTT  
TCTTGTTGACTTCTAACTTTCAAATCAAATCATTTGGTTGAAACAGAC  
TGTGCTTGATTTTAGAAAATACACAAAAACCCATATTTCTGAAATAATG

Table 2

CTGATTCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAG  
TAGAATAAATCCTGCACCAGCAACAACACTTGTAATTTGTGAAAATGAA  
TTTTAATTTTCTTTAAAAAAGAAATTTTAAACCATCACACTTTTTT  
TCCCTACCTTTAGATTTTGATAAATGATAAAAATGAGCCCATTATCAAA  
AGAAAACTTGTCTTTACTCCAAAATGGAATAATCTAAATTTCAAATAAT  
GTACCCTGG

>Sequence 379

CGCTGTCTCCATATGTGCTCATGTGTGGTATCTTACGTTACTTGTAGTA  
TATAGCTCACTTTCGCGCTCGGTAGTATGGTATCGTTTGGTCAACTTTTA  
TTCTCTTGATTTGTATATTATCNANTNNCNGGGGATGGTGTCTAGAG  
GCGGTACCGAGGNGCCGCGGAGGGACTGCTAGCCAGCCAATAAAATAT  
AACTCCATTTGTCTTAGTTATATAGAAGTGTGTTCCAGCTTAGAAAAA  
GTCAAACCAATGACTGTAGAACAACTACTCTCATTTTTTATTACGCCT  
CTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAATAGGCAAGACCTTC  
TGAAAGTTAACATCTTAATGATTAAAAACAGTAAGTACGCACAACCGAAG  
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CCGGTTCTGCTGTCCAGCTGGACCATCTATTCATCCTCCTCCTCTGAG  
CTGTCAATTAATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
ATCTAACATATATTTATGCAATGTAGGGTGTCTCCATGCATGATTACAG  
CTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACAAGACATACCTCGAC  
CGGGCCACCGGCCCTTATATTATGGAATCTTTGCTTTTGGCCAGAGGT  
CTTGCTTTTTTTCAGGACACAAGGGCTTTTGACAGGTAATACACCTAACG  
TTGCAGTGACGGTGGT

>Sequence 380

TCGTTCTTTTTTATCTTCATTAAGTTTTCTTTTATACTAGCTATTGTA  
ATATTTTATTTATTGTCTTATAAATTATAATTTATTTATTACTATTTANN  
ATNNNTNTTGTGANATTGTCTACTGAGGCGGGCTCCGAGGTACGTTAGCT  
CATTTTCCCTTAAGCGGGTTGTGACGTCGTTGAAATTGCAACGCTCAAAC  
TTCCAACTTGGTATACACTTGTAACCCAGCTTTGTTAATGAGACACGC  
ATCAAAATCAGATGAACAATTGACGGCTGTTTTGCAGTCAGCAGTTGGGT  
TAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAATGGCAGAATGACAGT  
TCGGACGAGCTAGTAATCTGAACAGGACAGAATCTCTTTGTATTCCCTA  
TTGTGATTGTTACAGAACTACTTGTGTAGTAGGTTTTAACTACTACACC  
AATTGGTGGCTAAAGACTGTCGTCCTATTTATCCTTTTTTAGCCTCGA  
GCCCCTTTATCCCGCGTTCCTTGCTCGGGCTGGCGTTCTAGAAGTTAG  
TGAAATTCCTTGGGTCTGCTTGAATTTTATTAACAAGGCTTATTCGATAC  
CCAGTTCAACTTTTGGGGGGGGCTCGGGCAGGCTTTTTGTTAACCTT  
TAACTGAGGGGTAAATTAGCTCTGCTTGTGTAATTAATGTTTATAGAAT  
GTACCCTGGGTGAAAATGTTATTCTTTTACAATTTACATTACAACATACG  
ATCCTGGCAGCTTTAAGTTTAAAGTCCTGGGT

>Sequence 381

TTAGATGGCTACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGA  
CTTAAACAGCTACACCACCAGATGCCGAGAGAGAGGCTGGAACATAGCCT  
TCCCTTTGGAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCA  
GCCTTCAGAACTGTGAGACAAATTTTTATTGTTAAGCCACTTATTTTTT  
GGTACCTGCCCC

>Sequence 382

CCTCTCTCTCCTTACTTTATATTATCATTACTCTATTATTATATCTTTA  
TACTCTTTATATATTTATTTGTATTATTTCTTATAATCTTTTTACTGC  
TATTTTATTACNANCAGGGTTGTGCTCGTAGCTCNCTTCGCGGNGGCGGC  
CGAGGTACTTTTTTTTGTGTGTTTTTTTTTTGAGACGGAGTTTCACTCT  
TGTGGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGTT  
TGCCCTCCTAGGTTCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGG  
GATTACAGGCATGCACCACCACGCCCGGCAATGTTTTTTTTTGGATGTTA  
GTAGACGTGGAGTTTCTCCATGTTGGCCAGGCTGGTCTCAAACCTCTGAC  
CTTAGGGGATCCACCTGTCTCAGCCTCCCAAAGTGCTGGGATTATAGGCA

Table 2

TGAGCCATAACGCCCGGGCGGCAATAATTGTTAACAGACTACATGAGTAAT  
TGCATAAATGGACGATGTCTTTCTCTACTTTTAATTTCCAATGACTTCA  
TTATTTATAAAATGATCTCTTTTAAATGATCAGTTCCTACATTTTATT  
CCTTAGAAGCCTCTTTTCCCTTTTTTTTTTTCATCTGTCCCAAAATTTGA  
CACCTTTCTTTAATTCAGTTATTAAGCCACTTTTCTGAGTTTTTTTCATA  
ATAACACCCCTTTTACGGACCATGTTAATN

>Sequence 383

ACCCCTCTTCTCTGTTCTTTATTAAATTCCATGCTAAATTTACTTATCGT  
GTACATAGGTCTTAATCTAAATTACTACGTCGATCCCCACATATCTAATT  
CTTCCNNNNNNNAAGGGATGTGCTCCTCGCGGGCTCCGAGTACTCCAGNC  
CCCANATTCGGGTGTGGGACACGGCTCTCCATTCTTCTTCTTGGCTTTAC  
AGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGAGCTTCTGAGGATGA  
TCGATAAATAAACACACCTCCTCTTAACCATCCTTGGGCTTCATGGGGGT  
GGCATTGAGGATCCCTACAACAGGCCCCCTGGTGCCGCTTCCAAAGCGGT  
TTGGAACCTTCTCCAAATAAGAACAAGGACACACATTGGTGTGAGGGTAC  
GAAGATCATTGAGTTCCATATGCTCAAAGGTTTTTCCACTATTCACACT  
CTTGTGGCGGTAACCTTTTTTCAATATTAACCCCCAAATGTCACCCCAAT  
CCTATTTCTTCCAAGCTTCTTTTCTGGCCCATCTTTTCTTGAATCTG  
AGACAAGTCTGATCCAAGTTTTCGGCCGGTCTAAAACTAATGGGGGACCC  
CCCGGGGCTGGAAGGAATTTCCAATATCAAACTTTATCTGATACCCGTCC  
AACCTCCAAGGGGGGGGGCCCCGGTACCCCAACTTTTGTTCCTTTTATG  
AAGGGGTAATTTGCGCGGCTTGCCGTAATAATGGGCATAGCTGGGTCCTT  
TGTGAAAATTCG

>Sequence 384

AGACTGCAGGAGATGTGGGCGGTGCCAAAGAGATGGATGAGACTGTTGCT  
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAAC  
AATCCTGAAGGCCTGGGATTTTTTGTCTGAAAATCAACTGCAGACTGTAA  
ATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT  
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTA  
TATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTA  
AAGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAAT  
TCGTTCAAGAAAATTTCTTCAGAGAGCATTAAAAAATGTGACAGTCAGCTT  
CAGAGAACTGAGGAGAATGCAGTCTGGATTTCGAATTGGCTGGGGAACA  
CAGTACCCT

>Sequence 385

TACGCGTACCTCACCGTGTCTGTCTATATACTTGTACTATCTANTTA  
CTAACTAGTCTCGTCTTCTANCACTCTCTCTTCAACTACTACTTATCT  
ATTATCTCGTATTATATATCTCATATTATNGATACTATCATTATAATTT  
AATATAANAAGTATCCGTTGTGCTTCTACGCCGGGCGTGCCGGNAGCAGC  
CGAGGTACTCCGTCTCAGAGGAGGGATGCAAACTTTCGTGAAGACACTCA  
CTGGCAAGACCATCACCTTTGAGGTCGAGCCCAGTGACACTATCGAGAAC  
GTCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCTCTGACCAGCAGAG  
GTTGATCTTTGCCGGAAAGCAGCTGGAAGATGGGCGCACCTGTCTGACT  
ACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGTCTCCGTCTCAGAGGT  
GGGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA

>Sequence 386

CAGTGTGGGCCCTTTTGAAGGTCGCGGTGCGCCGGGCAGGTAATCCCTGAT  
AAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAG  
AGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTC  
AAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTCCTC  
ATTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGA  
CATGTAATCTCAGAATGTTTGTGATATGCTTCTTGAATGCATATTTTTT  
AATCTCAAACGTTTCAATAAAACCATTTTTTTCAGATATAAAGAGAATTACT  
TCAAATCGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAAGTGTTTT  
GGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACCT

Table 2

## &gt;Sequence 387

AACGAATGTGTCCGTAATTGATGTCCACTTCNCACCGN  
CCAGCCGANNTTGATTCTTCAGTCCTNAGCGATGGAGCCCAGGGTCCCTT  
GTTATTGTCCCTTTCTCTCTCAAATGCTTGGCTTGTTNTTCAAGAGAAC  
CTGTCTCGGTGGTCATTGCTCCATCGATTGGATCCAGTCCTTCTTCAAAN  
CATTGTTCAAGGCACTTTAANGCTAGCCTGAAANCGCTTGAATCCCTTGC  
TAATACTATTCCAGTGTGATCTGAGAGGGTGGTACCTCTNGCCCGCCTC  
TANGAACTACNGTGGATCCCGCCNGAGGCTGCATTGGAATTCNGAATATC  
NANAGCTTATTNGAGTACCCCGGCNGACACCTCGACGGGNGCGGGCCTCC  
NGGTACTCCANGCTTATTNGTTACACCTTATAAGTNGACTGAGTTTAACT  
TNGTCGCACCNATAGGCGNGTCANTACAATAGTGTCAATACGGCTTGNT  
TGCTCNGTTGTGAGAAGTTNGATTATCCTGCGTCAACTAATTGCCACA  
ACATACAATACCGACGCCCCGCGCAGGCTATAANANGTCGTTAATAGCTC  
TGGTTGCTNGCGTNATCTCGAGGTGAGGCTAAACCTCAACAACCTTAAAT  
TGCGGNTCGCGCGCTCAACTGGGCGTGCTCTAACACATGACAGGAGAAAC  
CCTCGTCGGTCGCCACACTTGGCGATTTAATTGAGATTNNGGCCCACTG  
CTCGCCGGTGGAGAGAGCGCGGGTTNACACTATTTAGAGGCGCTTAGTTC  
TCGCTTTCCTTCGACTCAATNTACCTTCCCTTGCCTTCAGGGCGTATCA  
CGCTTCGCGGCCAAGACCGTAATCATACTCTCATCTCAAAAAGGGCGGGTG  
ATACCGCGTTATTTCAACANTATATCAGTGGGATAACCGCAAGTAAATAA  
CACTTTGAGCACAACAGGCCCGCACAAGGCCCATACCCGGGAAAAGCGG  
CCCCCTCTTTGCTTGTTCTCTAAAGGTTGCGCCCCCTCTGCGCACGAATT  
AAAAATTCGCACCTCTAAGTACAAGGCG

## &gt;Sequence 388

CCGCGCTTACACATTGAGTGCTCCTTTCCCNCCAGNCGAGNA  
CCCCAGGGAGAGATCAAAAATCATCACCAACCATAATATATCATGGACTA  
ACCCCTAAACCTTCTGCTTAATGAATTAACATAACGGGGCAAAGA  
GAGCCACAGCTAATACCCCTAAACCACTAGCTACCTAAGAACAGTAA  
AAGAGCACACTCTTCTATGTAGCAAACTAATGCCAAGACTTATATCTAG  
AATCGACAAACCTACCTAGCCTGGTGATAGCTGTCTGTCCAAGAAAGAAT  
CTTACTTCAACTTTAAATTTGCCACAGAACCTTTAAATTCCTCCTAA  
AATTAAGTAGATGCTCAAAGACGAACAGCTCTTTGCACACTACGAAAAAA  
CCTTGTTAAGAAGAGTAAAAAATTTAACACCCCATAGTTTGCCCTAAAC  
GCAGTCACTCATTTAACAAAGCTGTTAAACCTAAACACCCACTTACCTAA  
AACAATCCCCAACCATATAACTGAACCTTACTCACACCCAACATGGACCAG  
ATCTATTACCCCTAAAGAAAAAACTAATGCTAAGTATAAAGTAAACATGA  
AAACATTTCTCCTCCTATAAGCCTGACTTCAGATTCAAACACCTGAACT  
GTCTTTTAAACACCCCAATATCTTCCATCAACCACCAGGTCTTTATTACCC  
TACTGTCAACCCCAACACAGCATGCTTCATAAGAAAGGTTAAAAAAAAGTT  
AAGGAACACTGCAAATCTTAACCCCCATTTTACCCAAACACTTACCTTTT  
ACCTTACCCAGTATTAGAAAGATCCTTCTTTCCCAAGAAAAATGTTTAAC  
GGGCCCTTAAAAACAACCTGAATCCCCCGGCTTCAATAATTCAATACC

## &gt;Sequence 389

CGAGACTAGTGGCGCTCTTGGAGGTGCGGGTTGCTCACGCCTGTAATCTC  
AGCACTTTGGGAGGCTGAAGCAGGCGGATCACGAGGTCAGGAGTTTCAGA  
CCACCTGGCCAACATGGTGAACCCCCGTCTCTACTAAAGATACAAAAG  
TGGGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGA  
GAAGAATCGTTTGAACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACG  
CCATTGCACTCCAGCCTGGGTGACAGGGCAAGACTCTGTCTCCAAAAAAA  
AAGAAAAAAGGAAAAAAGCCTTTCTTGATGCTGTTCCCAATTCTCCACT  
AAAACGCCTGCTTTTCTTAACTCCACACCGAACCAACCTGAAATATTTG  
GCCCAGAAATGCCAACAAGAATTGAAGAAAAAGATGCTTTACAAAAATAACA  
ATATAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAA  
AAAAAAAAT

## &gt;Sequence 390

CCCAATCTTTCTCCTCGGAACGCGATCTCTCTGTACTTTATTTAATTTT

Table 2

TCGCTTACGGTGCGATATTT

&gt;Sequence 391

TGNTTGTCTCTCTCCGAGGGCGGCCGAGGTACGCGGGATGGGATTTCTG  
ACCATTTGCCCTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTCA  
TAATTAAGGCTACCAAGACTGCCCATTTGTTCCAGGCTGGGCAGTTCATAA  
TGGGGGCAGACAATAGTGCAAAAAAATTTTACATTTTATCTTTAGAGTGT  
CAGGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCA  
GGTGAATAGGTGGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGA  
CTTTGAAAAGTGGAGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCAT  
CCCCCTTTAGGGCCCCAACTTAGTCTGTCTGACATCTCTGACCTTAGAT  
GGGTGCTGGCACCCTTTGGAATGGTTCCTCCATCACTGAGGACCTGAC  
TTAAAGTTTTCTATCTCACTTAAAAACAACCTTTAACGCTCTCAACTTA  
GGCAATAATAAATTCCTTTTCATGAATTCCTTCACCACCATGCACCACA  
CAGACCACATGCCCGGACCCTCTGACTTGTGTAACCTTTTGTGCATAGCT  
AGGTGGGGTTTCTGGCCT

&gt;Sequence 392

CTTATATTGCCTTATATTTTATTAATACTATATTTTTCTCACCGTTTTTT  
ATCCATAAATTTTCTTGTTATATATGGTTTTGAACACTCATATAATTTTA  
TTATNTTANTATTTATGTTTGTAGCGATTCACCT

&gt;Sequence 393

CCGGGCAGGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAG  
GGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATA  
AGTCCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCA  
GCTTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCC  
TACTAGTGTCTATAAGTCTCTGTCTGAGATCCTGGGGCTCCTCCTATTT  
CTAGAAGGGATGAGGTGCCATCAAAAAATACTTGGCTGGTGTAACAGTTT  
AGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAG  
GCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT

&gt;Sequence 394

GGTGCGCTTACCGGGTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTA  
CCAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTTGGCCCA  
GCAATGTCAACGACTTCCACATTCCTTGGCCCACTGGCTGAGCAACCCCA  
GGTTCGGCTCTGTATAAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGC  
AGTGCAAAACAACCAACAATTTACTGGTGGAATGGCAATCAAAGGAAACA  
GTTAAACACCAACAATTTCTTAAAGCCAAAAAATATTTTTCATGGAGTT  
GAACATTTTTCGAGTGTGTTTTTTCAAGTGTAAGCAGTGACATTTTG  
TTCAAACAGAAGCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGT  
TACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGA

&gt;Sequence 395

GGCGACCTTATCTGGTGGCGGCCGAGTACTTCATTTACACTTAAGCTAG  
AGAGTTAGGATCTTAATTTATTTAAAGCCATAGATTCAGTTTAGCTTTAA  
CCTAGACAGAAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAA  
TAAGGCAACAGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACG  
TGTCTGGCTATCAGCTTTGTTTTTGACTACTAAGGCCAACCTTTTTATT  
CTCTGGATGGTCTGCAGACCAAGTTCAGAATTTAGGCAAAAGGATTTCCA  
AATGGATCCCTATACATTTTTCAGAAGATTGAGTTGAGGAAGAAGCCACA  
GAGGGCTTGTGATGAACCCAAAGGAATCTTTAAAGAAAGGGGTTCTCAA  
ATGCATTGGCCAGGTAGATTTGGTTAACTTGGCAGGGAAAACTTGTCTG  
GGGAGC

&gt;Sequence 396

TACGGAGCCCGGGGAGCCATAAAAAGTGTTAAAGGCCTGGGGGGTGCCC  
TTAATGGAGTGGAGGCCTAAACCTCCACAATTTAAATTGGCGTTTTGCGG  
CTCAACTGGCCNCGGCTTTTCCCAGTACGGGGGAAAAACCTGGTCCGTG

&gt;Sequence 397

CTCTTAGTGGAGGGGTAAATTGGCGCCGCCTTGGGCGTAAATCAATGGG  
TCCAATAGCCTGGTTTTCCCTGTGGTGGAATTTGGTTTATCCCGCCTCA

Table 2

CAAATTTGCCACCACAAACCATTACCGAGGCCCGGGGAGGCATTAAAAGG  
 TGTTAAAAGCCCTGGGGGGTGCCCTAAATGGAGGTGGAGCCTAAACCTG  
 CACCATTTAAATTTGCCGTTTGGCGGCTTCAACTTGGCCCCGCTTTTC  
 CCAGGTCGGGGAAAAAACCTGGTCGGTG

>Sequence 398

GGGACCACTCACCGGGCGGCGGCCGAGGTACAAAATTTAGAGGTTTCCCC  
 TTTATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTC  
 TTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTAT  
 CTGAGCATCTGGGCCTGCCCTGAGTTGTCAAGAAATTTCTTATCTCTGA  
 AGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCT  
 TGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACA  
 CAGTTTATGGGACTTTTCTGTGAACCTGAGGGCAAGAACCATGTCCC  
 ACTCCCTGCTTGCTCCTCAAATATTTATAGGAAAGCAGTCCACAGTCTC  
 ACACAGAGGAAACATGAAGTTTAAGTTCTAGCCCTATGA

>Sequence 399

GCCTCCTTCGCTTCTATCTCCCTTCGTATTTATTCTGAATCTGCTCAGA  
 TACTCATCTCTTCTTCTTATACGTATTCTATTATTTCTGTTTACGCTCAT  
 AGTGTATNACTCTTTTAAATAAAATAATATATGGGTTGTGCGCGGAGGCC  
 GCGGAGTACTCGGGGAGAGAGGAAAGAACACAGATCTCGCATGGTTTCAG  
 ATTTTCTTTTATAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
 TATAATTTCTTCTGGATTCTCTGGGAGCCACATTGTGAGCCCCACTTATCC  
 CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
 AATAATGGTCAACTTTTGCCACTACAACCTTCAGGGCCCACTTAATTCATG  
 GATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
 CAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGTCTGGACTG  
 CTCCCAAATCAGATACCCCTTAACAGGAGAGGGCCAGTTTGGCCAAAGGAG  
 CCCAGGCAGGCCAAGGTGATCCCTTAACGTTTAAACACCCGCTAAGAC  
 ACAACCAGGCCCAATCACGTGAAGCCCTATGTATTCTCCTTCAAAAAGC  
 CTAAAGAGGCAGGACAGATGTTTAAATACTATTCCAGTTACATGGGCCTA  
 CCCTGGGAACCCCTCAGAAACAGGTTCCAGGGCACCTTAACCAAACAGA  
 ACGGTATCTGTTTGGGAGCCCATTCATTTTGTCTAAACG

>Sequence 400

TGTGTATTGCCGAGGTACAGACAGTGCTTGATGTTTCATAAAAAATACAAT  
 GCCCTGGTAATGTCTGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCT  
 TGATAAGGCTTGTGGTCGCTTCATAAACAACAACGCGGTTACCAAGATGG  
 CCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCC  
 TTGTTGAAGAAAAGTTCCAAGAACCAGAGGAGGCAGAACTAGAAGACAC  
 ACTCAATCAAGTGATGGTTGTCTTCAAGTACCTGCCCCGGGCGGTGAGCG  
 GCGCGCCGGGAGGTACGCGGGGGCTAACAGGCCAGTGACAGAAATGGA  
 TTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCC  
 TGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAGTAAAGCTCTA  
 GAGGCCGTCAAATTGGCAATAGAAGCCGGGCTCCACCATAATTGAGTGTGC  
 CCATGTTTACAATAATGAGGAGCAGGTTGGAAGTGGCCATCCAAACCAAG  
 ATTGGAATTTGGCATTGTTGAAGAGGGAAGACCTTAATTTCCATTGAGAGG  
 CTTGGGCCCAAATCCATTCTACCCCGGGTGTTCACCCGCCCTTGAAGG  
 GGGCCTCAAAAATATTTCAATTATGCCATG

>Sequence 401

GGTCGATCGGCGGTGGCGGCCGCTTGACCTTGATGTACGAGCAATTAG  
 GAGAGTCAGAGGATGAAATAGATGAACCCGACCAATGAGTTAATCACCAA  
 CATCAACTACTAGCCAGACGGGATGAACCAAGCGTCACACAATACAGTG  
 TTCCTGTTGTAAGTGAACAACACACTGCAGCTGGTAGTAGAAGCCTCAC  
 GGGATACTCTGCGACAACCTACAGCAGCTGTTTATGGACTCACTAGGATTT  
 GTGTGTCCGTGGTGTGCAACTGCAACCAAGTAACCTGCTATGGCCAATTG  
 TGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACTCCTG  
 GGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGA  
 GTGAGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGAAAAACCTT

Table 2

ACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAAACAGGGACATTAGGC  
TTTTTTTTCTTTTAACTTCCAACAGGAAGGGTCGGAATTTATCAAGACA  
TTACATAGGAGTTAGGGCACAGCCACGGGTGGTGGTGGGGAGGACATTTT  
CCAGCCTTATTAACAGGGTTTATTATAAACAGGGTGGGCCCACTACTTGT  
CTAACCTAATTCCAGGTCAAGATGTGT

>Sequence 402

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACACATATCC  
TCTGTGGGAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCG  
CTCAAACCTGGAAAAAGTATCTCAATGTCTGAATGTGGGAAAACTTTAG  
CCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACAGGCGAGAAGC  
CTCACAAGTGCAGTGAAGTGCAGGGAAGGGCTTTAGTGAGCGCTCCAACCTC  
ACTGCCCCACTACGAACCTCACACAGGGGAGAGGGCCCTATCAGTGTGGGCA  
ATGTGGGAAAAGCTTCAACAGAGTTCAGCCTCATTGTCCACCAGAGGA  
CCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTC  
AACAACAGTTCACAGTTCAGTGTCTACCGGCG

>Sequence 403

AGGTACCAAATTAAGTATTAATAATGAGGATTGAACTGGGGCAAACAGGTT  
ATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAACTACTG  
TTCCTCAAGATTAGAAGATGTCCAGACTCTTTGCATTAACTTCCCTAAAGG  
AGGAAACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAAATA  
TGAAATGAGGAGATGTTTTAGAAAGCAGGACATATCTACCTACCATTACT  
GGAATTAATAATGTATCCTCTGGGCCCCACTCCATTGATTCCGATCTGAGGT  
GAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAAGACTGAATAAGATGAA  
AGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAAAA

>Sequence 404

TGGGGTGAGGTTTGATNCAGGTTCCGCGGCCCGGGCAGGTACGGACGCCC  
AGGGATCCGCGCCGAAGCTAGCACGCAGCCTACCCAACAGTCTACACAGC  
CGACCAAAGCCCCCGGTACCCAGAGGAGTCGCTGGTGAAGTGGGAGCTCA  
ACCTGTTCAGTGTCTGTCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGC  
ATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTTGTGGCTT  
TGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAAATTCAGGTGACTTCT  
CCAGGCTTCCAACCTGGTCTTTTTACCCTTTGCTGGTGATAAAAGGAAGAT  
GCCTTTTTCTGAAAAAATTAATGGCCCCCTCCAAAACAGGGGGCCATGAAG  
AAGTGTTTTTTAAGAAAAATGCTTTTGCTTAAACAATACAGAAGGTGCCATT  
TTAAAAAATCCCCCTTGTCTGCATTAAACATTTTAGGAACTTGAGGCCT  
TTGGCCCTTGATTTTTATGGGACCCGGAACATAGCAGGGTTCCTAACTT  
TCCCAAGTGTGAAGCTTTGAATAAATGCCCCGGGCCTCTCTGGGTGGTAA  
TTATAAGGGTGTGTGTTCCCCCAAAAATTAATTTTTTGGAGGGTAATC  
T

>Sequence 405

GGGCGTGTGTAGATCCCACTCCGCGGTGGCGGCCGAGGTACGCGGGGGGC  
GGCGGCGGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGC  
TGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCAACCTCAGCTA  
CAGTGTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTTGCCAAAGTCGTCTGTAGTCTTTTGGCCAAAG  
CTGTGTGTTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAAC  
AAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAGAGCCAG  
CGGGGTCGCTAGTGTATGACCAAGGGCGGGAGATCACAACCGCCAGAGA  
GGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTGCAAAATTCCTTCT  
CTACCTTGGTCACTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTG  
CGGTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTGACAG  
CAGTCTACGGCCTGGTGGTGGCAGGGTCTGTTCTGGTCCCGGGAGCCATC  
ATCGGTGACTGGGTGGACCAAGATGCTA

>Sequence 406

TGAAATTGTTGTCCTGNGATTACCTCCCCGCGGTGGCGGCCGAGGTACAG  
TTCACAGTGCTTGATGATAATAAATGGTTATTTTACTGGTTCATGTATTT

Table 2

ACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTATGTAAA  
AAAAAAGTTACCTCAGGGAGGTCCCTTCCTGAGGTCTTCCAGCACACGGCA  
TTGTTATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCAC  
CTTCCAGTGGGAAAGGATGTGGAGGTGGAAAGCATACTGATGATTTTGTCC  
CCGTGGAGGCCTAAGCTAATGTGTGTGTTGTGTCTTAGCTTTCAACAAA  
AAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAAGTACCTGCCCCG

>Sequence 407

TGGGGCGTTGGCCCTCTCCGCGTGGCGGCCGGTGTGCTCATCGTAGCCTC  
GGG

>Sequence 408

GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTTTTTACCAAACCTTAAAGTTTTTTTCCGATTCACTCGCC  
TCATCTTCAGGAAAACCTTCTCTTCCATATAGTCATGCTTGTGTTA  
TGGTCCCAAGCCTACCGCCATGTTTTACAGAAGCCCCGGTTCGCCGGGGCTC  
CCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAATGACACATT  
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAGAGTTAACCTGTACATAGT  
AGGTTAACTTTTTTCAGGGTTTGGCAGTAGAGGTATTCGAACCTTCACTG  
GCTGAGCCAGATCACGGGAACCTGGGAGCTTTTACTGTGATTCTCATGT  
AAAAAATTAACAACAATGTCAACTGGGTGGATGATTTGTTAAGGCCTTT  
TAGATTACTTTTAAATAACATTTTCCCGAAAAAATAAGTAC  
TGGCCGTTTAAACTGGGGTCCCCCGCTGGGGTTTCTTTCAACTTTTCTT  
CCCGACTGGG

>Sequence 409

CCACTCGCTTCATCTATTTCTATTTATCCATATACTCTGTTGTTCTTGGC  
GCTATATATTTGTGTTAACTACTTTTTTTTTTCTTCCCACTAATTTTGT  
GATCTACCTAATATTTTCTTCACAATCINTTTCTATATTTTTTTTCGNAA  
TTTATTTTTCTCATCCGGTGGCGGCCGAGCACCTNATTTTTTTTATTTT  
GCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCTTCATCCTTTAT  
TCCTAAACATTTACTTATGACAAATGTAACGACTGACAGAAATTTGAAAA  
ATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCCCTTC  
TTGTTTTCTTGTCTTTTCAGGTAATTAACCTTCTCTTTTTTAGTTTGAA  
CTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGGACGGGTATTAA  
AAAAAATTAACCTTTATATTATGCCAGGTGAGGTGTCAGAACCTTGGCTTCG  
GAAAGTGGTTGGCTCACCCCGCTACTGTCCCGGGGTATATTATTTTAT  
TAATTTTTCTTTTTTTCTTCTGTCTGCTGCTGCTGCTTTCTTTTTTCTTC  
TATTTTCCCCCTTTCTACATAAAATTCACCTTTTCAAATTTTCCCCATC  
TTGCCTTATTTTGTGTTAGTTTTCTCTTTGTTTCCACTCTTGGTTGAATT  
TTTTTTATTTTCAATGTCCTTCTTTCTTTTACAAGTTCTAGCCTAT  
CCCAGGTTTTTAAAGGGTTTTTTCCTAACTTTTTTCACTCGGTTATTCAA  
TT

>Sequence 410

TGTA CTGATGCGTGGGCGCCCGGGCAGGTACTGTGCAGTAGTAACCATA  
ATTCTAAATGAGGATTATGGATTTTCTGGAAGATTCTTTTTCTGTGG  
AACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAA  
GACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGT  
ATATATGTATATATGTGTGTTATGTCATACGCCNATGTATGTTTATATAT  
GTGGTTATACACACGCACGCACACTGACAAACGCATGCACACATGCAC  
GCACAACTTCACTTATATTTTCTCTGCTTCCCTGGGGGACTGATGC  
CAGAACCTCTTGTAGATACCACATCCGGGGGTGCTCATGTCCCCTCTGCC  
AATAGCTTAGTCCGGCTGGGCATCGTGGCTCACATTTGTAAACCGCACAC  
TTTGCGCAGCCCAAGCCGGCCGACCACTTGATGTCAAGAGTTTGGGACCA  
TCCTGGCCACATTTGTAAACCATTTTTTTCTTAACCTACAAAATATTT  
GCGCATGGGGGACCGCCCTATCAAATTCATACTAATGAGGCCCGCGCA  
CGAGAAATGGTTGAACCCGGGATGGGGAGGTTTCAAGGGCCCTATAGCATGC

Table 2

CCATTTCTCCAAGGGGGG

&gt;Sequence 411

TGTAGATCGTGC GCGGGGTACGCGGGGTGCTGGGATTACAGGCACGAGCC  
AGTGCGCC CAGCTGCCTGTGTTTCTTTATTAGCTGATCTGGACTGAGGG  
GCTCCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAA  
CTGGCCCGGT CAGGGGGACATAACCATTTCTGTGCCACCCCATCAGTA  
CCCACCTATTGTGAGCGAAGGCTCCTCCCTGCTTGAGTAATGGCCACAG  
ATCTTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAG  
ACTGGCTCGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCA  
CTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAA  
GTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAAT  
CTCCCAAAGGGAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGT  
AGTTCCTAACACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGA  
AGAGACGAAACGAAACCTGTGCCTCGAGCGGTCCGCCTGGCAGGTACAAG  
TTGTAGTAAACAAAGCTTAAAGTTTTTTCATCTTTCTACAGCAAATGGT  
CAGTTATTTATAAACCT

&gt;Sequence 412

GTTGATGGCGCGCCGGCAGGTACTAGAGTTTTCAAGTATGTTCTAAGCAC  
AGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAAT  
ACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGGCCGTAGTCC  
CAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGG  
AGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAA  
GAGAGACTTGTCTCCAAAAAAAAGTTACACCTAGGTGTGAATTTTGGCA  
CAAAGGAGTGACAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTA  
TAAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGT  
TTACCTCAAAATCCTTCTCTTTCCCAAAATTAAGTGCCTGGCCAGCTGTC  
ATAAATTACATATTCCTTTTGGTTTTTTTAAAGGTTACATGTTCAAGAGT  
GAAAATAGATGTTCTGGTTGAAGGCTACATGCCGGATCTGGTAATGAACC  
TTGTAATGCTGTATTGCTTCACGGCTTACTATAAATGTTACTTAATACA  
TATCAACTTATTACAATTTACTATAGAGGGTATAAGTAAATTAATCTCTA  
TTT

&gt;Sequence 413

TGGATGTGTGGGCCGAGGTACCTAGTCTATATGAGTTTGATGCTTACAGT  
CAAGGCTATTAGCAAATATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGA  
GGGAATGAATAGTTTGTCTAGAGATAATAAAGGAAGGTGAATTTTTAAA  
AAGACAAAAAATAAGGCTAGAAAAGACTGAGTGGAGAAAAGCCTACAGAATT  
TCAGAAAAGCTAAAGAAATTGGAATTAGATTGAATATAGATAGAAATGGG  
AGGACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCC  
TGTGGTTTGGAAAGTGTCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAA  
ACCCAGAGAGGGTGCTTGAGAATATACAAGAACCCTTGCGGTGGTGACTG  
AACAAAACGCAGCCAGGGATTCATCAGAAGCATAATCCATTTCATGGCAC  
CAGTCTGGCAGTGCTGGGGAGCTGGTAAGATACACACAGGCCAGTGCTCC  
AGTCTTGATTTGATATGCTGGTATTTTGGTTCTGTGGTATTCTTTTATCA  
AGGACTAAGGGTTCCCATGTGCCTTCGAGGGCATATNTTTCACCGACA  
CGTCGGGGTCTAGGCCTACGGTGGCTTTAACCTACTTCTACCCCACT  
T

&gt;Sequence 414

TGGAGATCTCCATCGGGGGCGGCAGGTACGCGGGATCCAAGATGAAGTGC  
AGAGAAAAATAAAGATCCAAAGTCATAGTCATGAGGACAGAATAAAGACA  
TTTTATGCCTTTTGTGTTTGTGTTTCTCTTTTGTGGAGAACAGGGT  
CTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATACTGTCT  
CCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGC  
CCGGCCAGAATAAAGACATTTTAAACTAAAAAAAAAAAAAAAAAGAGTT  
TGCTTTGCATTAATCTTTTTTTCTTTTTTTTCGTTTTTATTTTTAGTT  
TTTATTTTTTTTGAGACGGAGTCTCACTCTGTACCCAGGCTGGAGAGCA  
ATGGCATGGTCTCGGCTCACCGCAACCTCTGCCTCCTGGGTCAAGTGAT

Table 2

TATCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAAGGTGTGAGCCACC  
ACGCCTGGCCAGAATAAAGACATTTTAAAACTATAAGAAATAAAATAAAA  
TANTTGTAACCTAACTCAAATTTTAAAAAAAAAAAAAAAAAAGCCCC

>Sequence 415

CTTGAACTTGTCTTGTCTGCTTCCGCTAGCGGATTTAGTTAACTCAAAGC  
TGTAATTCGGGTATCTCAAATAATGTGATTACCCCGGAATTACCTTTT  
TCAATGGTCTCTAAAATGCCATAACCTTATAAGGGCCGGTTGATTACGCT  
TTCATATAGTTGGCCCCCTGCCAGTCTATAAAAAAGT

>Sequence 416

TGGTGATCGAGACCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGG  
AGGACCGTGGGCAGCCAGGGTCCGGTGAAGGATCCCAAATGGCTGGGCGA  
AAACTTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATACC  
CCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCC  
TCACCTCCAGGTGGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGG  
GCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGA  
GAAGAAGTTAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAAATACTG  
CCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGG  
GTGTCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAA  
GATGAAGAAGTTAAATTCGATTTGATGAGATGACGATTGAGGACTTGAATG  
AAGCCTTTCCAGAAACCAAATTAGACAGAAAAAGTATTCCTATTGGCCTT  
ACCAACCATTGAGAATTATAAATTGAGTCCAGAAGAGCTTGGCCTTGAT  
ACACATCTGACTTAAATATATTTTCAAAAAGAAAAAAAAAAAAAGTCCT  
GCCGGCGCC

>Sequence 417

TGAANTTGATGCTCTCCGTCTGCGCGGCGCGGACCTTTTTTTTTTTTT  
TTTTTTTTTTTTGAGAGGGAGTTTGTCTTTTTTGGCGGGCTGGAGTGC  
AATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGTGA  
TTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACC  
ATGCCTGCCCAATTTTGTATTTTAGTAGAGATGTGGTTTACCATGTTG  
GTCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCCTTGGCC  
TCCCAAAGTGTTGGGATTACAGGTGTAAGCCACCGTGCCCGGCCATCAGT  
TGTATTTCTATAGTAGCCATGAACAATCAAAATGAGATTAAGAAAAATG  
CCCTTTTAAATGCTTTTAAAGAATAAAATTTTAAATGATTAAATTTAA  
CCAAGAAGGGCCAAACCCTTTCCCTTGAATATTACAACTCTTTTGAAG  
GAATTCAGGAAGTTGAAAGCCCTTCTGTCTTTCGGGTTTTGAAAATAT  
TTTTTTTAGGGGGGGCTCTTCCCAAAAAATTTCTAAGGTGGGGGGCCTT  
TCTAAAACATTTTTTTTTTTTTTAAAAAAAAAAGTTTATTTTTTTGGT  
AGGGGGGGGGCCAAATCTTAAATTTTAAAAAACCCCTCTTCTTTTC

>Sequence 418

GCTGTGATGCAATCCNACTCACCGGTGGCGGCCGAGGTACGCGGGATTT  
TGAATGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGT  
AAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGGAGGTGGCATGG  
AGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATAGAATCCTGATG  
TGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTA  
GCCAGAGGTCCAGATGCCTGGGCTGAGAACCAGCGATAAGGGGGCGTT  
CCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCATTGCACAG  
CCCCAGGCACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATG  
GGTTGCCCAAAAAATGTGATGTGCTTCATGTTTTCTCTGACTCATGGATC  
TGGTAGAGACCATAGACATGATATAGACTAACTTGCCCATTTTCAAAAG  
AGGAAACCATGCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTTGAAA  
GAAACCATGTGCTTCATGAAACCTACAGTTGACAAGGGAATGTACCTTGC  
CCGGC

>Sequence 419

AGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGAAATAAC  
AGGTCGTGATTATTTCATGGGCACAACTGACTCATGGCTGGGGAAGAAG  
CAGCCACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTG

**Table 2**

GGCTTTTNGGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTT  
TCTCCTTCTCTCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAACT  
TTGCATACCCCGCGTACCTGCCCGGGCGGCCGCTCGAGGTACTTCTCTGA  
GCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCC  
CTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATAT  
TCTTTTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAAGGAGGCTTCCCAA  
CTAAAAATTCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCA  
TCATGCATGCGACCTTCAATCATTTTCAGGGGGCAGGTAGTCCAGGGTGCC  
ACAGAGAGTGGTCTGCTGGAAGAGGAGCATGTACCT

>Sequence 420

NCCCGATGCGNCTTACTTGAGGCGCCCGAGGTACGCGGTGGTCCGGCGCCA  
TTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGG  
CGAGAAGGGAACGGAGTTTTTCATCAGGTAGATTGGTTTTGT

>Sequence 421

GAGGGGATCATCCGACCGGGGGGGGGCGCCGCTGCCCTGAAAGACCTCC  
TGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGA  
GGGGCATTACAGCAACAATGAGAGAATTAATACTTCTTCAGAGTCAGTTT  
CAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACACTT  
TCAACAAACAGCAGTGGCTTAACGTATTTCGTCAAAGCCAAAGAAACAGTT  
TTGTGTGCTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCTT  
AAATCCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAAACCTTGAGC  
AGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAG  
GTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACTCTTCTGTGGA  
CAGCAGGCACGGTGAAAGTAACGTCTGACAGAAGCATGTGCACTTCGGGA  
AGCAGGCCTGCATCTTACCTGTACCTTGCCG

>Sequence 422

GGGCTATGTGCANTNTTTTTTGAANNCCNANCTTACCGCGGTGGCGGCCG  
CCCGGCAGGTACGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTAC  
AGGCAATGATGGGTTTTGTGTATGGTGTATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAA  
ATTTAATATATTAACAAAGAGGCATCTGCTAGAAAACATTCTATTGTAT  
ACATACTGAAAACCTATAAGGTCCTGGATAATTTTTGTTTGATTATCA  
TTGAAGAAACATTTATTTTCCAA

>Sequence 423

TTTGGANTNGCCACTCCACCGCGGTGGCGGCCGAG  
GTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCCTATGTGAAAAGC  
CCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTTCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACAT  
GNGTAATGGAAGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAA  
TTAGACAGGGGGAAGTAAATTTATCTTTTGCAGATGATATGACTTATAT  
GTATTATAGAAAACCTGGGCCAGGTGCAATGGCTCTTGGCTGTAATCCT  
AGCACTNTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTCAGAAAGTTGA  
GACCAGCCTGGGCAACACGGTGAAACCCCGCCTCTACTAAAAATACCAAAA  
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGCCGATGCTAAGGCAGGAGAATT  
GCGTGAATCTGGGAGGTGGAGGTGCAATGAGCTTGAAACTTGCCACTGC  
ACTCCAGCCCTGGGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAC  
GGAGAGAGAACCCTCAAGATTACGCACACACACAGAGCCCCTGCTTGA  
ATAATAAATGAGGTACGCCAAGAAGTTCCGGCATATACAATCAACAGGCA  
AAAAATCCCTTGTCTTCTAGCCCTGACCATTAATAATTTNNAAAAAGAACTTA  
GGATACCGGTTTATTTTATTGCATTCAAAAAAAAAAAAAAAAAAAAAA  
GAACTTGCCCGC

>Sequence 424

TGAATGATGANGTCNCTTCCGCGGTGGCGGCCGAGGTACTGCCGTAGCCG  
CTCCTCCCGCAGCTGTGCCGCTCCTTGTCTCCTCCTCATTTGCACTGC  
CAAAACAGGTCAATGTCATCATCTCTGTCATCCTCTGCTGGTGTGGCTGGC  
TTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCAAGT

Table 2

GTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATC  
ACCAAGTTTGAGGAGCACGTGCAGAGTGTGCATATCGCAGCTTTCAACAA  
GATCTGAAGCCTGAGTGTGGGTACCTGCCCG

>Sequence 425

TGGATGATGAAGTCCTCACCGCGGTGGCGGCCGAGGTACTAAGTGGTTTA  
AGGATGGAAAAAGAGCTAACAAGTGACAACAAATACAAAATAAGCTTCTTC  
AACAAAGTATCCGGCCTTAAGATCATCAATGTAGCGCCGAGTGACAGTGG  
GGTATACAGTTTTGAGGTGCAGAACCTGTTGGCAAAGACAGCTGCACAG  
CTTCATTGCAGGTTTCAGGTTGGTTGATTCTTGGGCTTTTCCTTCATCA  
TTATAATAATGTAGTTCCTGATTTTCATAAAATGTATATGGGTTGTTACAT  
CTTCTATAGGATAACATGAGTCCGACATCTTCTGAATCAGCAAATTCAGA  
GGCAATACCATCTCAAGAAGCCACCATTGAGACCACAGCCATTAGCTCAT  
CCATGGTCATCAAGAAGTCCAGAGGAGCCATCAAGGCGTCTATTCTCTT  
AAAATGAGAGGCAGGACTGGCTAGGGTGATGCCTAAAGATGATTCCCAGG  
CTTGACATGCTGGTATTCTTACATATCTATTCTGGCTGTATAATCTGTG  
CGATGAAAATTCCAAAATCCGAGACAGGAATTCGCACTTGTTAAAGTGGA  
GCTCCAAGCCTGAGATCCAATTGG

>Sequence 426

GAATGCTGAAGCCCTCTCCGCGGTGGCCGGCCGCCGGGCAGGTAAGTAA  
TGTGGGAAAGCCTTTTGCCAGAAACACACCTGACCAACCATCAGCGAAC  
ACATACAGGAGAAAAACCTATGAATGTAAGCAATGTGGAAAAACATTCT  
GTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACACAGGGGAGAAG  
CCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCT  
CACTGTGCATCAGAGAAGACACACAGGGGAGAAACCTTTTGGATGTAATG  
AATGTGGGAAACCTTCCGTGAGAGTCCGGCCCTAATTGTTACACAGAGA  
ACTCATATAAGACAGAAACCTATGGATGTAATCAATGTGGAAAAATCATT  
CTGTGTGAAGTCAAACTCATTGCACATCATAGAACACACACAGGGGAGA  
AACCCTATGAATGTAATGGTTGTGGAAAAATCATTCTATGTTAAGTCAAAA  
CTAACTGTACCT

>Sequence 427

GAAATGATTANTGCCTGACCGCGGTGGCGGCCGAGGTACCTTACTTAGCA  
GAGCACTTTGCAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTC  
CACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGGCTCCAGTTATAT  
TCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCTCT  
GATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCT  
TCACAAGGTAAACTTAAAAAGCCAACCAAAACAAATTGCTCTCCATTCTA  
CTTTTAATTGGGCCAAACAGCATATGCTACAGTAGTAACATGTTTTTCGG  
AGAGTGTAAAAACTCTGTTTACATTTGCCTCCTCCGTGGGTTGATCGAA  
AATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAAGAAGAGTGAGC  
TGCTGGT

>Sequence 428

TCTACACGCGAACTTTGCACCTCTCTACATATCGTATGTAGTATGACTTC  
TAATTTACTTCATATCTGACTCTACCTCTATCATACAACTATTCTGTCTAA  
TAAGTTTGTATACGATTATTAGGTGTGAGAGCATCATCATTACCACA  
TACAANTAAGGGGNNNGAGTTGATTTGATGCNCCCTTCGCGGAGGCGGC  
CGAGGTACAATTCATCTAACTTGCGGAAAGCACTTTCAGGCCAAATGCAG  
AAACGTCCCACATGCCACAGGAGCAAGCTTCAAAATGTTCACTTGGGG  
CATTAGGCAGAGTAATTCCAGGGATGTTTCTGAAGGCCTTGATGATACCA  
TTATCCTCATTATAGATGATGCACGGGCCCCCTGCGCTGGATACCGCGACG  
GTTTCTCATTTTGCCTTTGACAGCTCTCATTCGCTGAGAGGCATAGACCT  
TTTTGATATCATTCAGGCTTTAAGGCTTCTTAAGGAGCAAAACAGCTTC  
CTTGGTCTTATTGAGCCTTCAACTTTATCTTCAACTACCAAAGGAAGTT  
CAGGAACCTTCTCAATACGATGACCTTTAGACATGACCAAGTGCTGGTAGG  
GCTGAGGCAGCCAGGGCAGAACAGATGGCGTATCCTTTTTTGGGTTCCCGC  
GTACCTGCCAG

>Sequence 429

Table 2

TGGGGCGTTGTTTCCTAACCGCGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTGTGATCTCAACTGCTTTTAGCAAGTTGTGAATATACTTGGGC  
TTTCTGTCTTTCCCCAAAAGCAATTTGGGATTATTTTCTCTCTTTTTTT  
CTGCATTTTCATCATAAACTACTGTCATATTCATACACAGTAGCATCTTCTG  
CAAGGGCCTTCTGGATTTCCAGTTTGGTCTGTTTCATGGCCTGCTTCTTA  
GCAGCTTCCCTCTGAAGGCTTTCACACAGAGGTCTCATCATCATCATC  
AGAATCATTTCCCAAACACTGATGGTTTTTGCAAAACAGGGTGCAACTGCT  
GTGTTTTCTTTGGCAAAATAAGCCCATACTACCTGCCCC

>Sequence 430

TTTTCCGTTGTTCTCATCCGCGTGGCGGCCGAGGTACAGACAAAACACTAC  
AGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGT  
ATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTC  
AAACTGCTCAAAGTACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTG  
TCAATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGT  
TGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATT  
TGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAA  
ATGGACGGGGCATGAAGAGACTAATCATCTGGAACCGATTTCAAGTGGCG  
ATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCAGGCTGCAGCCCATT  
CGCAGGCACCCGAAAGAAGTTCCTCCAGTATGGTGGTCTGGAAAGGACAT  
TTTTGAAGATCAACTATATCTTCCCTGTGCATTCCGATGGAAATTCAGTTC  
ATCAGATGTTACCATGGCACCGCAGAACCCGAAGTAATTCAGCATAA  
GCGGGAAGATN

>Sequence 431

GAAAGTTTTCGTATCGGGGGCGGCGAGACCAAAACAACAGCCCTCCAACAA  
TGATGACCAGTGGAAAAACAATGGAGTCACCAAAACCTGGGACAGGCTCA  
TGCTCCAGGACAATTGCTGTGGCGTAAATGGTCCATCAGACTGGCAAAAA  
TACACATCTGCCTTCCGGAAGTGAAGATAATGATGCTGACTATCCCTGGCC  
TCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCCGCCCGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAG  
TGGAGGAATTGCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAA  
CACCTCAGGAAAAAAGCTATAGAAAGGTTAAAGGCATTAGGATTTCTT  
GAAGGACTTGTGATACAAGCGTATTTTGTCTGTGAGAAGAATGAGAATTT  
GGCTGCCAATTTTCTTCTACAGCAGAAGTTTATGATGAAGATTGAAAGGGAC  
TTTTTATATCTCACACTTCACACCAAGTGCATTACACTAAGTTGTTCACT  
GGATTGTCTGGGATGACTTGGGCTCATATCCACAATACTTGGTAAAGGTA  
GTAAATTGTTGGGGGTGGGGAGGGGGGAACTTGAT

>Sequence 432

GGGCGTGTTCGATTACCGCGGTGGCGGCCGAGGTACCACTGCTTCCCGG  
GACTCTGCGTTGTTACCACTGCTTCCCGGGAAGTCTGCGTTGTTACCACTG  
CTTACTGCGTTCCAGCATTTCTTTCTCTCTCGTTTCTCTGATAGATTCC  
GGCTAATGGTTTCCCTGGCATTGACTTCTGATGTGTAAGTGAATGCTC  
TTCCTGAAGGGGGAAACGCATTCCAGAGCATTTGTTCCGGGCTCATGTAGG  
AATAGATCTTTGACTGCCCGGTAAATCCCGCGTACCTGCCCC

>Sequence 433

GGGATGTGTTTGAATNTGCNAGCTTCACCGGNGGCGGCCGCCCCGGGCAG  
GTACAAATCTACCTCCCCACCAAAATGTCCTTAGAGGGCCAAAGATGGCCT  
TTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTTGGAGACACGGT  
TTCATTCTGTACCCAGGCTGGAGTGCAGTTGTGCATTTCATGGCTCACCA  
CAGCTTGAACCCCCAGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGT  
AGCTGGGACTACAGGGGCACACCATCAAGCCCCGGGTAATTTTTGAAATT  
TTTATAGAGACAGGATTTTACCATGTTTCCAGGCTGGTCTTGAATTCCT  
GGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTGTGGGATTACAG  
GCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAGCT  
CTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAA  
ACTGCTGACTCCCTTTATCTTTCCATAGCACCCCAAGCCTAAAACCAGA

Table 2

CTGGCACAAATGGTACCT

&gt;Sequence 434

TGGCTATAGAGACTTCCTCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGC  
TCATCCACTCTATCATTTAGATATCCAATTTTCAGAATGTGCTCAACATT  
GGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGGAGTCTCCCAGAAGAA  
TTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTCAAG  
GCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTT  
GAGCACCCCTATGAAAAATATAAATCTTTGAACAGGCTTTAAAAATTC  
TATTTGTTGGATTTTCATATTTTGGAGCTCTTAATTGATGTCACATTAT  
TTCATCATATTTGTAAATACATCTTTGATACTAGAGATCTCAAAGCACTT  
AAGTCCATCACATTACCATAGCTAAGAAGGGCTCGGAGAAGTAAATGAT  
TTTTTAGATACTATTTTAAATGGTAAAAACAAAGCCGGGCGCAGGGGCTC  
ACACCTGGTATCCCAGCACTTTGGGAGGCCAAAGAGGACAGATCACTCAG  
GGTCAGAGTTCGAGACCAGACTGGCCATATGGTGCCAACCCCTCACTA  
AAATAAAAAATTAGCCACGTTTGTGGCACGCACTGTAAT

&gt;Sequence 435

GGGATGATGTGACCCTGTCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGG  
GGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGCTTAAAT  
TAAACCACAGGTTCCATTATGGGTCGACTTGATGGGAAAGTCATCATCTT  
GA

&gt;Sequence 436

TGGGGGGTTGTACCACCGCGGGGCGGCCGAGGTACGCGGGGGAACACCA  
CCCAGTGTGGAGCAGCCAGCCAAGCACTGTCAGGAATCCTGGGGAGGCA  
GCTACCAACTGACTGCAGATCTGGAATAATAAGTGAGGGGTAGATCTGCC  
CATAGAGCTCACTTTAGACCGCCTATACTCCTACAAAGAATTGTGGTAG  
GATCTTTTACTCATCCTTGCCACAATAGAATGGCCAATGCCCTTCTAAGA  
TGTTTGGTGAAAGTCTTGGAAGCACCATTTTCCCCCATCACCCCTGGGAA  
GAAATGAAGTCCCTAAGGCAACCACCAGGGCTAATGGAGGCTGAAATTTT  
AACAAAACCCCTATTGGGGGGGAAAAACCCAAAGGGCGGGCATATTTTT  
TTTCCCCAAAAGGGAGCACAAACCCAATTAAATCTTTAAAACGGAGTGGG  
GGGGGCAAAATTTATGGCCAATGGCACAACCTGGGAAAAAAATCCTAA  
GGGCCCCGGGTATATTCCCTATAACCCGTAATAACTCCAACCACCCGGT  
AATTTTATAGAAACCTTAAAAAAGACACATTTTTTGGGGAAAAGCAGGGGG  
AACCTTTTTTCAAACCTAATCCCACCTTTGGCTTCCTTGGGCACAACAA  
TTATTGGTAAGGGGCCTTTGCAAAAAATAAAGGGGAAGGACCCTCCCCGGC  
GGGCCCTA

&gt;Sequence 437

GTTATACTAGTTATTTTATATTACTCGTAATATGCTTCGTATTCGTTTCT  
TTATCTTAGTTGTGTACGTTATACTCATGTATCAGTTTGTAAATTTACTAA  
AATTGTATCTATCATATAGTTACTATTNTNTATCTTGCTGTTGTGCGGT  
TGGCGGCCGATGTACCTTTTTAGAAGAGAAAAAGAATCTTGAATTGTATAT  
ATTTATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATT  
TTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTG  
CCACTGCTGAATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTT  
GGCAGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCCTGCCCG

&gt;Sequence 438

ATTTTCTAGTCTATAATCTTCTGTTATATTTATATGTATTTTATCATTT  
ATGTAGTATGTATCTATATTAATTGTTTAAATAGTATGTGATTACTCTA  
TTTAGTCTATTATTTAATTTTGTTCGAGTGTCTGCCGCCGGGAGGTACG  
CGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAG  
ACATGGGACTGGAGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCT  
GAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAACAGT  
GAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGAGCGGC  
TAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGGAT  
TGCACGGAGGAGCTCTTTGACTTCTTGCATGCGAGGGACCATTCGCTGGC  
CCACAAACTCTTTAACAACCTTGAATAAATGTGTGGACTTAATTCACCCC

Table 2

AGTCTTCATCATTTGGGCATCAGAATATTTCTTATGGTTTTGGATGTAC  
CTG

>Sequence 439

CTATGTACTACTCATCTCTANTCTGTATTGGACTACGTACTCGTGTTTCAT  
AAATCTAATCCATCTTCTCTCTGTAGTACGTACTTTGATTCCTATTTGA  
GTAGTCATTTTCATGTTTATATTTTATATCATATCGTATCNTATCNCANCT  
TGTTTGTGTCAGTCCATCTGGTGGCGGCCGAGGTACTCTGTGATTTACC  
TAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCTCTTTGATCCCATAC  
CATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAAAAG  
AAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGG  
AGGCCGAGGTGGGCAGATTACTTGAGGTCAGGAGTTCAAAACCAACCTGG  
CCATCAGTGGTGAAACCCCGCCCCACCAAAAATACAAAAATTAGTGGGGC  
GTGGTGGTGTATGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTTGAACCCAAGAGGCAGAGGGTGCAGTGAGCCGAGATCGTGCCA  
CTGCACTCCAACCTGTGCGACAGAGCAAGACTCTGGGAAAAAAAAAATAAA  
CATAAAAAAAGGAAGGAAGGAAGGGGAAAGAAAAGTGGCCTCACAATGAT  
TTGCAACAACCTATTACAAAAAGAAATGAAAGATGGAAAGTCAAAGAAA  
GAAAGG

>Sequence 440

TGGTGATGTGCCTGACCCGGGGCGGCCGAGGTACGCGGGATGTCTAAAT  
ATCTTGTA AAAAGTGTTAAATAAAACAAACCCAGTCAATTA AAAATTTTG  
ACTGTTATTGAGAAAACCTCCAATGAGGGAAATAATAAGATCTATAAAGGT  
CTTAAGAAAAATATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGCTC  
ACGCCTATAATCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGA  
GTCCAGGAGTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTA  
CAAAAAATTAGCCAGGTGTGGTGGGACACGCTGTAGTCCAGCTACTCA  
GGAGGCTGAGGCAGGAGGATAGGTTGAGCCTGGAAGATCGAGGCTGCAGT  
AAGCTGTGATCACACCACTGCACTTTAGACTGGGCAAAATAATTGTTTAA  
TGATAAATGAGGTTCTGCCCCG

>Sequence 441

CGGATGTGANNATTGATATAGCGACTCCACCGCGNGGCGGCCGAGGTAC  
ATTGTAGCTTTGAACTCAGTGTTTAAAAATTCAATCTGGTTACACACTCT  
ATCTTCTAGATCCCCTGAGACACTGTCTTCTTGAATAAGGGCCAGGTGA  
AATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTTCTGGTGACC  
TCACTCATGACTGCCCTCTGTGTCTCTGCTGTCCGAAAAGCTGGTGACC  
AGGCTGATTTGTTCTTCAGAACTCTTCTGTCTGCCCCCGCGTACTGTTT  
CTGCAGGTAAAGGCAGGACTGGAACCTCTCCACAGCTTGACATAGTTTT  
CAGATTCAACACTAATTTCTCCGAGTTTAAAGATGTGCCTGGGCAGCATAA  
AGCTGTGCTTCTTTTGTCTTCTGCTTTTAAAAATGATCTTTGCTAAATC  
CAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTT  
CTTGAAGAGACTTGTCTTCAAGGACTGAATCATTGTCATTCTTCAGTC  
TTATCATTTTCTTTATCATCCTCTTCCGAGCCTTCAGTTTCTTACCCTC  
TTTCATCTGGTCTTCTCTCTCTTGGGGCTCTTCATTAGCAGCTATCTGAA  
CTTTGGCTTCAGGTGATTTCTCAGTAGCTCCCTGGGCTACCTTGGTAATA  
ACCCCATCTCCAGCTGCCTCAAACCTCTTTTACAGACAGCNTAGTCTCCTT  
CTGACTGGGAACAGCTTTGCCCTGACTTCTNCTTTAGATCCG

>Sequence 442

CGGCCATCCGCATCATATCTGCTGTGATCCAAAGNTTTTCAACGTCCTA  
ACTATGAGTACGTGTTTGTATCGGCTTNTCGCNCNAAAANANNNAAGG  
TGTGAAGTTCGTATGCACTGCACCGGGGGCGGCCGCCCCGGGCACGTACTT  
TTGCTGCTGAGGAATGGAATCAAAAGAACGTAGTCTCCTGGTAACCACCT  
CAGATCTCTATTATTAGGCTAGATGTGGGGCGGGTGAATCCCCAGCTTC  
TTGCTCTCGACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAA  
AAGGGAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATC  
AACCAACGTTGCTATGAAATATGCCTCACACTGTATAGCTCATTATAGGA  
CGTCAGGTTTGTGAAAAAAGTGGGCAAGACATGATTAATGAATCAGAAT

Table 2

CCTGTTTCATTGGTGACTTGGATAAAAGACTTTTAAATTTTAAAAAAAAT  
ATTCATGGAATAGGGTCCT

>Sequence 443

TGCTGATAGNGTCCTCACCGCGGGGCGGCCGAGGTACATGAGAGACACTT  
TAAGCAGGCTCACAGGAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCT  
ATCTCTGAACCCATTCTACTGCGTTTAACTATTTTATTGGTTTCTAACT  
ACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCACAGCGTT  
GTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGC  
ATCCGCGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGA  
AAACTCCTCCTTCTCCCATTTGTTCTATGAGGTGGGTGGGGACTCCAAA  
ACCCGTAGCTCCTGCCCTAC

>Sequence 444

TCGTCTCATACTATTATAATTGTATTCTACTATCTTACATTATCGTATC  
GTCTTAATGATTCTAGTATCTATTGTTCTGAATATTTATTATCATAAACT  
AATATCNNANNNNTTGTGTTTATTCTGATCGGACTCCACCGCGGTGG  
CGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTCGT  
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTGTTTTTGGGCTT  
ACCTTCTTGCTTAATGGAATTGTTATGGCTAAGCACATAGAAGGCCAAAA  
AAGGAGTTTTTCAAACCCAGCAAATCAAGTGCTTGGATTCTGAACTGCCA  
AAAGAAAACTGCATTTCCCTCTTAAGTAAAAACGAAATGAGTTTCTTAGG  
TAAATGTATTTCATCAGCCAGATAAAAAAAAAAACAGTTATGTGAGCGTT  
AGTCACTGCTCATTTCCAGGAAGATCAAACAAAATACCAGCCAGCCAGA  
CTCACATGTGTGTATATATATAAAGCAAAGAGCCCCGCCACAAGCCA  
GCAGCTGGGTGAAATATCAGCTGTCCACGCCGTGGTATTCCAATTCGGGG  
AAATTACCTCCTTGGA AAACTGGAAAAATTATTTGTTGAAAAAAAATT  
ATTTGATAAAAGTGTTTT

>Sequence 445

TGACGATNAGATCGGAGTCCTCACCGCGGTGGCGGCCGCCGGGCAGGTA  
CTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAAG  
TCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACAGCAGTATGAA  
TCTTGACGGTTTCTGCCCGTCCTAATGGCAGAGCTCTCTGACTTGGGTGT  
ATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGG  
TTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGA  
ATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGGT  
GAGTATCCCATAGTTTCATTCTCAACGTCTTTACTGCACTGTTTAGGGTC  
AGATACACATATATATACAACCTTTGGGTGAGCTCAGGAGTTTATAAGCTT  
TATGGGCTTGGTGTTTTGATTTATAAACAGGAGTTTATAGAACCTTTATGG  
GTTTGCTTCCTTTTCTGCCAGTTCCTTGTATTTCCAGCCCTTAAAC  
TCCTTTTGGGTCTGTGTTCCAAAGCTGGTTCCTTAGTTACCCTACTTGTT  
GACCAGTTTCACAGTGTG

>Sequence 446

TGATGATGATTCCCTNATCCGGTGCGGCCGAGGTACGCGGGGAGACACA  
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TTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCAGCACTTTGGG  
AGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAAACATTTGCTGGGC  
TTGGTGATGTGTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTAGAACCCATGAGGTGTAGGCTGCAGTGAGTCATGTTTGCACCA  
CTGCAGTCCAGCCTGGGTGACAGTGTGTATTAGTTTGTGTTTTCATGCTGCT  
GATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTAATTGGACTTA  
CAGTTCCACATGACTGGGGAGGCCTCAAAATCACGGTGAGAGGTGAAAGG  
CACTTTTTACATTGGCAACAAGAGAAAAATGAGGAATAAGCAAAAGCAGA  
AACCCTGATAAGCCCATCAGAATCTATGAGACTTATTCACTATCACAGA  
ATAGCC

>Sequence 447

ATTATACTTACCTCTTAGATTTATTTATCTCAAGAATATATCGATTTCAT

Table 2

CTTTTATACTTANTTGTACATATTTTTTAATTATATATTCTATTTATTAT  
TATACAAACNATCTAATGCGTTGTATCTTCTCCGGTGGCGGACGAGGTAC  
GTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTT  
GCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC  
TGGTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCC  
GTCTGATTCTAATAGAGAGCCGGGTTACCGTTTGGCTCGATATTATAAG  
ACCAAGCGAGTCTCCCTCCCAATTGGAAATATGAATCATCTACAGCCTC  
TGCCCTGGTTCGCATAAAATTTGTC

>Sequence 448

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTCTAACAAATCTTGCCTG  
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TTTGTGTTTGGGACTATGATCCATTTTGTAGTAATTTATTTTGGGGGGG  
CAGAGTCCATGTTGCCAAACTGGTCTGGAACCAACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGCGCGCTCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCC  
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

>Sequence 449

GANTTGTGCCTCTCGCGCGGGGCGGCCGGGTACAAAAAGCAGGGGCCC  
AGCCCCAGCTGTTGGCTACATGAGTATTTAGAGGAAGTAAGGTAGCAGGC  
AGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAATCAGCTTCTGG  
AGGAATGCATGTACAGGCGGGACTTTTTTCAGAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAACAGCCAGGACTGCCGAGACTCTGGC  
CGCCCGAAGGAGCCTGCTTTGGTACCTGCCCGGGCGGCCGTCGATCTCCT  
TGTGTTCAAGCAACTTCTTGCGGTAGTCCTGAAGCGCCTTATCTCTAGG  
TCCGCCATGATGAGAACCCCGGTACCTGCCCG

>Sequence 450

TGGGATTTGCCCCCTCCGGGGGCGGCCGAGGTACTCCCTACGGCACTAGTC  
TACAGGGGGAAGGACGCTCTGTGCTGGCAGCGGTGGCTCATATGGCCTGT  
CTGCACTGTAACCACAGGCTGGGATGTAGCCAGGACTTGGTCTCCTTCCC  
CGCTCAAGAGATAGAAAGACCAGTCCTTGTGAAAGACAAGTCTGAATGCT  
CCACTTTTTCAATTCTCTCCATTCTCAGTAAGTCAACTTCAATGTCTG  
GATGGATGAAACCCAGACACATAGCAA

>Sequence 451

TGGCACCGTGCGTCTCCGTGGTTCGAGCGGCCCGCCGAGGACAAATGAG  
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ATCCTCTTCAAATCTAATTTAATATAGGGAATAAGATTATTGAAAAAAA  
TTTTTTTCCCTGATTTTCTTTTCTGAAAGTTTTTTTGTAGAAACCATGG  
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GTTATTTTGTGAAAGAGGCAAAATTGGTCTTGAGCTGCTTCAGTCTATG  
TCTGAAGGTTTTACTGAAATTATGGTCCAGTTTTAGGAGAAAAATTACA  
GAAAAGTCAGATTGTAGATTTTGAGAAGGAACTCTGAGGTGGTGAATTT  
CTCCAAGGTCATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCTCC  
ACAATCCCAATTGAATGAGCGCCATTTTGGCATCTTCTGAAAGAATTT  
AAAAGCCTTCACTGAACATCCAGCTTCTATGAAAAGGTTCTTCAGATCAT  
CCAATGTAACAGAAGGGGAATGTTGGAAAGATCAGAGTGGCT

>Sequence 452

TGGTTATGGACCTCACCGCGTGGCGGCCGCTAATGTTAGAAGTTAAGTTG  
GAACCTATATTGTAGAGGAACAAAAGCCAATCAGTGTCTTTTTGTCTTT  
TTTTACATAAACTTTTACTACAAAAATTAATATATGGATTTTGAATTTCC

Table 2

AGTCAAACCAAATTGTAAAACTGTTTCATTTGGTTCTATATTATGTATAC  
ATAATTTATCTATTATATATTTACATTAAAATATATGCATATATAATGGA  
TTAATTTCCTTTTGGCACCCCATATCTAGAAGTCTCTTCATAAAATTAA  
TAAATAATCTAGGGCCAGCATTATGTTTGCTAGACCTGGATTTGGCTCAA  
TACTTAAAGTTAAAAGTTTCTGTCTTTTTTCTTGGACTTGAAACTGCCTA  
GAGCGTCAGTCTCTCTGTTATTTTTTCTATTTTCTTTTTTCCCCCATCAG  
TCTTTTAGCCACTTGAAGCCAAAATTCTTAGTTTCTGTCTAGTCGATAA  
GAGTAAAAGGGGAAGGAGGAAAAGGGTCCAGTGCCACTGGACAGTCACCT  
CTCTCTGGGAAGGACCCATTACAAGACAATGAGTCCCTCTACTTTTTTAT  
ATTTCTATTTACATAAAATCTTTA

>Sequence 453

CTTTATCCCTTATATACATAAAATATTATTATTGTTAACACAACCTGTTATA  
TATAACATTATAATATAGTATACTCTATTTTGAGCACAAGATGATCTCTC  
ATCCANNNAAGGGTGTGTTAGATTCCATTCCCCGCGGCGGC

>Sequence 454

ACCACGCCTCCGCCACGTGTTGTCAATTATCTCCTGATCGCGATCTACC  
CTCTATCCTACGTATCGACATCGGGCAGCATTCTATAGGAGTTGGTATCT  
ATTATACTANTANATANAAGGGCCGGCGTCACGCTCACTATAGCCGAAGG  
NGGACGNCCGGCCAGGNACGCGGGGACCTTTCACGGGCGGGGGGAGCTGA  
GGCTCCTGCCGACATCTCTGATCCTTGACCCCTGGCAGGAAGCTGGTCGC  
GGGCACTATAACGGGAGGCCTCCACATATTCAGAAAAGAAACCACTCTG  
CAGTGCCAGACTGGAAGAAGTAACGGTCACTCTGAAAACAGGGGGGAGA  
GCTGCCCTCCCTTTGAACCTCTCCCAGGACCAACTCTAACCCAGGGAGGGG  
AACTTGGTCGGTGCAAGCGGTGGCTTGGAGACAGAATCATCTAATGGAAA  
AGATACTAGAAAGGCGCTGGGGATACATCAGAGGAGAGGGATACTCAGC  
CGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGCCGAGGTAGAGCTG  
CAATGTGGGAATGGTACCT

>Sequence 455

CCACCCCTTATACCAGTTTACATAATGTTGTTATTTTGGTTTTTCTCCTA  
CATAAGTAGATCTTCTCATATTTCTTCTCAATCTCTATATTCTACCTGTAA  
TATCTAAATCNTTGTTCGTTAGCTGGTGGCGCACCCGCGGTGGCGGCCGC  
CCGGGCAGGTACGCGGGGAGGATCTCTGTCTTTTGTCCCTCACCTGTCT  
GCCTGTCTCCTCTCCTTTCTGCTGGGGGGACTGTCCAGAAGACATCAT  
CGTCCAGTTCCCTCTGCATTTGAACAGCTGATCCCCACCCCTCAATACCG  
TTTAGAGCAGAAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACT  
ATTTTCGGCTTCAATGCGCCACACAGCCTCATTGTAGCTTCTCAAATCTGC  
TGTTGTAGCAAGAAAGAAAGCCATATACCCTGTGTAAACAAATGAATATGG  
CTGTGTGCCAATAAACTATTACAAACATAAAGAGTGGGCTGGATATGA  
CTCAGATACTGTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC  
TCTATAGCCTCCAGCCTGGGAAACAGAGCGAGACTTCGTCTTAAAAAAA  
TTAATAAATATATTAATACATATGAAAAAATATATTGAGCTGGGCGTT  
GTGGTCTACTCTTGCAATCCAACACTTTGGAGGCTTAGAAGGCAATCACT  
TTAGTTAGGGGACAGAACAGCCTGGTCACATGGTGAAACC

>Sequence 456

AATCCTATTCTCTCATTTGCTGGTTCATAATATAATATTATATATATGTCT  
CTCTCATTCATTGTAATTTATATTATAGTAGTATGTAATTGCTGGTAATA  
TCTACATAATNTTTCNNNTAATAAGTGCACTTTGGCACTTTGGAAGCGC  
TTCTCCGGGAGGCGGCCGAGGTACAACATGACATTTTAAACCAATCCAAT  
CTAAAAATGTGCCAGAATCCACCTGTGGCCCGAATCGTGTGTTGTTCTC  
TTTCTACTCCACTGCAGATGACCAACCTGTCCCGCTGCCACTTTCTCA  
CTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCACTAAAAATGCC  
CCAGGAGAATAGGCACCGGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGC  
TTTCTGTTTTTCTTTTCCCGACAGCACAAGAAAGTAAGGGCAGTTATTG  
GACAGGTGTTATTTAAACATTCTATTGTAAATGAATGTGTTGTTGTTTC  
TACTGCATTGTGGAGCATGCGGGGGAAGAGAACTGACCCAGGTAATGAAA  
TGGAGCCCTTTCCTGGAACTAACCAGTCCTTGATGTTGTGTGACTAAAGT

Table 2

AAAGATGATAAAACCCCATTTGCTGGGGGTGGTACTTTACACTTGGGTTG  
GATTGGGAAAGCTTTCCATACCCTTGGCCATTCCCTTTTTTCTTTTTTT  
CAACCCCATTTTTTAGGAAGGGATTGTTAACAAAAACCTTTCTTTTAAA  
CCTTTTTTT

>Sequence 457

TGCCGTTTGAGTCGACTCAGGGGGCGGACGTATATTACTGTGCGAGAGGT  
AAAGGATATAGTGGCTACGATTACGGCCTCTCT

>Sequence 458

GGAGAGTTGANNCANNTTGGGAAGCGCTCCCCGCGGTGGCGGCCGCCCG  
GGCAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTA  
CTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGC  
AAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTT  
GTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGA  
TGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAG  
CTGACCTTCAAACCCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGT  
AAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGA  
ACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATC  
TGGAAACCGATTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCC  
AGGGGGAAGCTGCGAGCGCACTCACAGCAACCGAAGAACTTCCCCAGATGG  
TGGGTCTGGAAGGACATTTTGAAGATGTTGCCAAGGGGAGAAGATCACGA  
AAGAAGGTACAGCCCTAGAGGCAAACCCCTCTTCAATCTCTTGATN

>Sequence 459

GGGGATAGTCNGAATCACGTGGCGGCCGCCCGGGCAGGTACGCGGGTAGT  
GAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGC  
CACTCAACTGACATACCATGGATTATGTGAACCTCAACGGTTCAGG  
AAGGAGAAGCTTTGTGTCTTTTCGGAATAATCATTTTAGCACCATGACC  
AAATACAAGGGTCAACTGTATTTGTTGGTAACGGACCAGGGGTTTCTTAC  
TGAAGAGAAAGTTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAA  
ATTTCTGTGACTCAGAATTTTCTCTTCGACCTCCTTCAGATCCTGAACT  
GTATACAAAGGACAACAAGATCAGATAGATCAGGATTATCTTATGGCATT  
ATCTCTACAACAAGAACAGCAGAGCCAAGAGATCAATTGGGAACAAATCC  
CGGAAGGAATCAGTGATTGGAAGTACGAAAGAACTCCAAGAGGAAGAG  
GACAGACCGGCTTCTAATACTATCAGGAACAGGAACAAGCAGCAGCTGCT  
GCTGCTGCTGCTTCTACACAAGCTCAGCAGGGCCAGCCAGCACAAGCCTC  
TTCATCAAGTGGAG

>Sequence 460

TAGACTTCAGGGAAACAACACGTCTGAAAGAAACATGATTCCCCTCAAG  
CCACAAAGGATTTTCTCATCAAGTGTTTTCACCTCTGCATTAGATTGGA  
CACAAGAAGAGGAGAGCATTACTCAGGTAAAAATAGTTCTCTTAGTCTC  
TTCTCTAGTTACTAATTTTTAATTTAAAAAATACAATTAAGTATCTAGC  
TGATAAAAGTCACAGACAGAAATAAGCTAAGTTCTCTCTTCTTTAGGGA  
ACGCTGGTGGCAATTCACCATATAAACTGGATGGAAGAATTCTCCAGGG  
ACAT

>Sequence 461

CTCTTACCCTCGTCTCACTGTACTGATAAACATTTATCTTGCTCACATGT  
ATATTTTATACTCTATCTATTGTCTGTAACCTCTCACAAATGCACTGAAGA  
TTATTGTAGTAATAGTGATTATGTTTCTCTGTATAATTTGGGGGTGATT  
GTATCAGTTGCCGTCGTCGGCAGGAACCGGGGGCTGTCTACCTGGAGT  
TCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAGCTGCAGA  
GGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCA  
TCTATGGCCACTACAAACAAGCAACTGTGGGCGACATAAAAAACAGGAACG  
GCCCCGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCCTGGAATG  
AGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACATCAACAA  
AGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGATTGTT  
ACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTTTTCTA  
ATACCGGGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACT

Table.2

CAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAAACGATTA  
CTGACTTTCCTTGTGTAGTTTTATCTGAAATCAATAAAAGGGGATTGGT  
ACCATAAAATTCTTCTTATTCTTGTCCCTTGCCCGTTAA

>Sequence 462

GAGGTTAATCNGATGCCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATA  
TTGTTCTGATTGCTCTGATGTGTGGACGGATCACCAAGCGAGTGACACG  
AGAGCTCAAGGACAGGCTACAATACAGGTGAGAGACAATGGCTTATAAAG  
GTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACCTTCTGC  
ACACTCCAGACAAACTTCCCAGACAAGCTCCTTGTGCCTCTACGTGGAG  
AGGGCGTGGAAGTTATCACATTAAAAGATGGAGGATTTAAAAAATAAAA  
AAAAAAAAAAAAAAAAAAGTACCTGCCCG

>Sequence 463

AATTACTCTACAGTAAGGACTGTAAGTACTAGAAATTATATGTATGTACA  
GATACTACACTATNGATTTATACTAACTTTATATTAATCAATTTACGAAT  
TAGATTATGACATACTTATGGAGCTAATTTATTCCTTCATTACTAGTTTA  
GTTGGTTTGATTTCGAGTCNTCTATCGCGGTGGC

>Sequence 464

TGCACGATGATTTCGAAGCCCTCACCGCGGTGGCGGCCGCCCGGGCAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCAC  
ATTTTATTGCATACTCAGGGGAATAACTTATTATACAATGAACACTCCT  
CCATTAGGAGACCATGCCCACTTACAGAATGCAGCCGTAATGCGGTAAA  
TCTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCCAGGA  
ATTTGAAGTGAGAATGATCTACAAATTCTCTGACAAGGAGCAACCGGGC  
TTGTGCTAGTGAGGGCTGAAAAAATTCCTGGCAAAACGTAGGGGGAGATT  
AAATCTCGGAATTGACAGCAAGTTTGGGGACAGTGCAAGAAGAGAGGGGT  
GACCTGTGAAATGGGGCTGGGGAACCTTCTTAGGCCCAAGGGGGGGCAGC  
ACTTGAGAGATGAGTTAAATTTAGGGGTGATCTTTAACCCTTTCCACCCC  
AACCAAAAAGGTTTGGGAACCGGGGTCCCACAAAGTTGGTTTCCAAGGA  
AAATAAGG

>Sequence 465

TGAGGTATTAATCCAAACCGNGTGCGGCCGAACGCAGAGAAGGTAGAAG  
ATAGCACCATTGCCGATTCGTCGAACTGTGAATTCTACCCGGGAACTCCT  
CCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACAT  
AAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAAATC  
CACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAAT  
GAAGAGAAGGAAGAAAATAAG

>Sequence 466

TGGGCTGATGGCTTACCGCGGGGCGGCCGAGGTACGCGGGGAGGTCCGT  
GCGCGCTTCTCCCGAGGTGGAACGGGCGGCAGTCAAGCGCCGGCGTTCTC  
TGCCGTACCCCTTTCCTTGC

>Sequence 467

GGGGTGATGACTCATGACTATCCCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCCATCACCC  
ATGCTAGAGTGCAAGTGAGTGATCTCGGCTCACTGCAACTCCGCCTTCT  
GGGTTCAAGCTATTCTCTGCCTCAGCCTTCCAAGTAACTGGGATTACAG  
GCACATGCCACCACGCCCACTAATTTTGATTTTAAATAGAGACAGGGT  
TTGACCATGTTAGCCAGGCTGGTCTTGAACCTTCCATCAGGTGATCTGCC  
TCTCAGCCTCCCAAGTGCTGAGATTACAGGCATGAGCCACCGCGCCTGG  
CTGATTGTGTTCTTTCTCACAGATTTTGTCTGTTTTGTTTTCTGA  
ACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAAGTAAAGTACAAG  
TAGCGCTGTGAGGTTCTGCCCGGTAGAAGGTAAGCAGAAGTGATGTG  
TATCACTTCTATGTGTGGCCTCCCAAAACCTCTAAAGGTTATGTTCCCT  
CTTTTTCCCATCTATGGCCTGNAAAGTGAAATATTATGGAGCCTTTTGCT  
GAGACACCCCGGTACCTCGGCCGCTCTAAACTA

>Sequence 468

**Table 2**

TCGGTGTGCTGTGCTCATCTGTCTTCCAAAGGAGGAACAGATCGGCAAGT  
GCATCTGACGCGTGGCCGACAAATGCTGTGCAAGAAAGAAATAAAAAACC  
TGAAACATGAGCGAGAGTGATCGAAACGTGTGGAAATGCCTTCTTAAAGT  
TTATAAAAGTAAATCAAATTACATTTTTTTTTTCAAAAAAATAATTTAA  
AACTAAATGTACCTTAAA

>Sequence 469

GCGATTGGAGCTCCACGCGGTGGCGGTGCGGAAGGAGAATGGTATCACTCA  
GGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACC  
CTGCCAAGGAGTTCACAAACCACTGGTGGAAATGAGCTCTTCAACAAGACT  
GCGGCCAACTTGGTAGTGAAACTGGGCAGGATGGAGTACCTTCAGGATT  
GGCCTGTTATCTTCTTTAGAATAAGTTTCATCTTAAAAATTTAAGAAGGT  
GGACATTTCAACACCATCAAGTGCATTTAGGTGACATGTTTAAGTTAACT  
TGACTTCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTC  
ACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATATTCAAAATGCCAT  
GTTACCATCTAAACCC

>Sequence 470

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTATTGTCTACCTC  
TCTGGACTTGCTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCAC  
GACAGAAGCCGAACCGGAAGTTGACAACTTCTGGTTTCAGATGCCACCC  
CAGACGGTTTCCGTCTGTCTGGACAGCTGATGAAGGGGTCTTCGACAAT  
TTGTCTCTCAAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAAT  
AACCCTACTTGCCCCGAACGTACCTGCCCG

>Sequence 471

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTATTTTATTTT  
TGGGAAGACACAAAGATTTCAGACCACAGCCTACAGGGAGAGAGGATTTCT  
GAGGATGGTGGTGCATGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG  
GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA  
CTGGAGTTTCCCTTCATTAGGATTCCATCCCAGGATATCCAGAGGACAAGA  
GGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGGTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGGTACCTGCCCG

>Sequence 472

ACTCACCTAACTTATATTCCTAGTTTATTTAAGTTATATTGTTACATATT  
AACAATTACTGATATCTGCTGACTAAATATCTACTACACTTCTCATACAC  
TTCAACACTCCTATATATTATTTGTATCTAGTGATATTTTATNNAANN  
TCAGTTNGTATGCTGATCGCGTTGCGGGCGNCCGGGCAGGTAATATGGG  
TGAGTGTTACTATTACAGTTAATTCGTCCTTTGTGTGCGCTGATAAATG  
CAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGCAACAACCTTATCG  
GTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGATAGT  
CGTCTGTGTTTTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTTCGTG  
GCGGGGTGGTTGGCCAAGTGCTGTCTAATAATTTTCAGGAGAGGATACTTT  
GTTGCTGTGCAGGATCAGCCATGGTAGATTATGGTTTTTGAGAACCAGA  
TGGGGCACACAATTTCTAGTGTGCCCATTTAACAGGGTCTTTCAAAGTAC  
CATG

>Sequence 473

TTTATATAACTTATTCGTTCAATCTATTTATTATATCTCTCTTATATACT  
CATGTCTACTTTAATATCATACTTGTTATAATTATTCATACATATTATA  
ACAANACCGATGCATGTTTCATNTANTTANGCAGCACACCACCGCGGTGG  
CGGACGAGGTACAAAATAATTATAATGTATTAACTCATACTGCCTGTCTT  
TTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTATAAGGTGGGTT  
ACCTTTTAGTTGCTTGGATGACAGGGAATTAGCCTACCCCATTTTGGTCT  
GGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCTTCTACTTAA  
GTGCAAGATCATGCTATGTGAGTTACCCAAGCTGGAATACCGTGACACGA  
TCGTGGCTCGCTACAGCCTCCATGTCCCAGGCTCGAGCAGTTCTCCACC  
TCAACCTTCCGAGTAGCCGGAACCAACAGAACCAAGTCTTCTCATTTTGA  
AAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGAGGAAATTTCTTA  
AACTTTCTCAACGAGTCAATGTAACGTTACACTGGCCTTCATAAAGCACCG

Table 2

TTTAAGAAAGGCCCTTTTTTTCATCTTTTATACTATATTCTGTTCTTGGCC  
TGGGGGGCCTTTTTTAAACTAGTGGATCCCCCGGGTTGTGGGAATCGTT  
TTCAGCTTTATTACCTTCCACCTTAAGGGGGTGCCCGGCCCACTTT  
GTTCCCTT

>Sequence 474  
TGCAGATGGAGCNTNTACCGGGGGCGGCCGCCCGGGCAGGTACGCGGGGG  
AGCTGAGCCGGTGGGTGAGCGGGCGGCCACGGCATCCTGTGCTGTGGGGGG  
TACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTCTTATGTGCC  
TGTCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGAC  
CGTGTACTTCTAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTG  
ATTATGGGTTTTTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCA  
TAAACATTATGGATGCTTTTTCTGTTTGTACCT

>Sequence 475  
GTACGATTGAGCCNTTTTGGAAGCCGCTCTCCCGCGGTGGCGACAGGGTT  
ACATTGGTAAGGGTGACAGTTAGAAGGGGAAGTCCTTTTAGTGAAATAGA  
TGAGAGGTTTTAGA

>Sequence 476  
TCTCTCTCATCTCCCACTTTTCACTCTATTGTGACTAACACTCTTTTCTT  
TCATCTCTTAACGATCTCGTTTACTCTATTCTATATATATGATTATTCAT  
TCATCTTTNATCNCTTGGAGTGGANCTTTGGGAGGCCTNTCCGCGGNGGC  
TACAGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCACGAG  
GCCACCACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCA  
CCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCACAGA  
TAAGAGTGTTCTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGAATT  
GGTCCCTTCACTCCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGGGT  
CTCCAGGAGAAAGATGGGGATTACAGCCCATGACACCTACATGTCAACA  
TGACTGAGTCTCCAATCTGAGCAGCAATCCGGGGTCCAGGGGAGATCTCA  
ACAGTAAATGGTTTCTCTTGGACAAATTAATTCCACCTCTTTCTGGTT  
TCCCAATCAAATTAACCTTCTTACACCACATTAAATTCAGAAATCTT  
CCATCCTTATAACAATTAAGTGGAGAGTTGGATTTCAGAAAGGTGCTT  
GAAATTCCTATAATCTAAATCTTACTCCAAAAAATTTGGGAGCTGGAG  
ACCTTGCTTGGACCAGGCAATGGTACGGAGCCCTTTTGGGAAGTTGGG  
GGAGGGATCACAGAAATAACN

>Sequence 477  
TCTCTTCTCTCGTTTTTCTTTCGTCTTATCTTTAGTCTTCTTCTTTCCA  
CTTGCTTCTTTTTTTTTTTTTTTTTTTGTTTTTAGTTATACATTATNTN  
NTTTNTTGCTTTGACGACTCCCCGCGGCGGGCGGCCCGGGCAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAAATATTTATTAATATGAT  
TTTTTAAAGTTTGAACCTTATTGGAAGGAGTCCCTCTAATTCACACTTTC  
ATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTT  
TTAAAAAACCATAGTAGCACAGTGAAAGAAATGCAATTCTCCAGGGTC  
TTAGAGAATTCAAAGGGGCATCTTAGGTGGTCTAAGAAACCAATTACAGT  
CTCATGGTTTTCTTTTGGTTCAAGATTAGAAGAGTCAGGTACCCTAC  
CTGTTTTTAGAGGTAGAATATGAACCTTCTACTAGTCCACAGTTTACTGG  
TCAGGTGGCCCCAACAGGCTTTTATCTTAGCCCCATCTGCCTTTAGGGTG  
GCCAGATGATCTCTATGTCCCAAGCAGCAAGGCTTCTGCTGATCTCTAC  
TTTAGATCCATGAACCGGTTTTT

>Sequence 478  
GTACGATTANCCNAATATGAGCCTCCTACCGCGGTGGCGGCCGAGGTACC  
TGATCAGGGATAAGAACCATTCCCTCCCTTGTTCGGGTGTGCTCTCG  
CCATGACCATCCATGAGACGCACTCTTGTATAGAAGTAAAATTGCCTT  
GCTGAGAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCC

>Sequence 479  
TGCCGATGATCGGAAGCCTNACCGCGGTGGCGGCCGAGGTACGCGGGGG  
TGTGGCCTGCATCTCAGCTGGCCGCATCAGTGTAATAGAGCTTAAAGT  
CATGGTTTGGCTGCATAAAAATTTTCTAACTGGGTTGAATATTTGTAGC

Table 2

GAAGTATCTGTTTTTCATTTTTTTCACGTTATAAATAAAAAATACTATGCTG  
GCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAT  
GTGGGTGGATCATGAGGTCAGGAGTTCAAGACCAGCCTAGCCAAGATGGT  
GAAACCCCGTCTCTAGTAAAGATAAACAAAAAATTAGCTGGGCTTGATGG  
CATGCGCCTGTAATCCCAGCTACTCGGGAGGGTGAGGCAGGAGAATCGCT  
TAAACCCAGGCGGGAGAAGGTTGTAGTGAGCCAAGAATGGGCCTATTGTA  
CTTTCAGCTTATCAATAGAAGGGAGACTGGCACCCCTTTAAATTACCTTT  
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Table 2

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TTTTGAAAAACCATGCCCCCACCTGACCCCAACAACAACAGGTACTGG  
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>Sequence 485

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>Sequence 486

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>Sequence 487

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>Sequence 488

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Table 2

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>Sequence 489

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>Sequence 490

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>Sequence 491

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>Sequence 492

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CGGGAGGTGGAGGTTGCAGTGAGCCGAGATCACGCCACTGCATTCCAGCC  
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Table 2

## &gt;Sequence 493

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GAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACAC  
GTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCT  
ATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGA  
AATGATTGGGCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAGGAG  
GAGATAAAAACTAAAACCTGAATATGATATAATGTGCAAAGTAAATCC  
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## &gt;Sequence 494

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GTACGCAAAATTATGTTTTTGGATGAATTTTCAAAATTTGTCATAATAGAC  
TTATATTCAGTTAAACTTGTATAATTTTTGGAATTTTAACTTGTGACA  
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## &gt;Sequence 495

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## &gt;Sequence 496

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CTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCTCATTTGCATA  
ATAGGCAGTTTCAATAACTGGGGACTTTTCTCAAGACCACACACAGG  
CTCTGGATTAAACCCAGAAAAATTAATCTTGAATGGTGTCAACCACTG  
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## &gt;Sequence 497

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Table 2

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>Sequence 498  
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CACCGTCACGTTGATCCCTGCCTCCAGCAACTTGCCACAATGCTAATGAC  
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GGGGGCCATTATTAACCTGGGTTTAAGGGCTTCTTGTAGGGGGGGTTACA  
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>Sequence 499  
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AATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTCTACTGAAAT  
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CCTTTTTAATGTAG

>Sequence 500  
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>Sequence 501  
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TAATGCTCTTCGCACTCTATCCAGATATATTTA

>Sequence 502  
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>Sequence 503  
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TGACGTGGGGTGTGTTCTATGACTGGTCCGCTTCTATGAACCTAGGTGTG  
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TCGTATAACCCGTTTCAACCTTTATAAGGTGGTGGTGTCCCTCGGGTAAC  
CCCAGGCTTTTTTTTGTCTCTTTATATGATTGAGGGTGTATATAATT  
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GTTTCTACCCTGGTGGTGAAAAAATTTGTTTTATCCCCGGCTTCCAAC  
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Table 2

GTTTGGAGTCTTTAAACCTCCACCCATTTAAATTTGGCGGTTTGGCGGCC  
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CCGGGGGTAGAAGGGCCCGGCTTTTGCATTTTGGGGGGGGCCTCCTTAT  
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>Sequence 504

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GCCGTAATTGGGGCGCCTCCTTTCCGCGTTTCCTTCGGCTTCAACTGGAC  
TTCGCTTGGTGCTTTTCGGTTCGTTTCGTGCTGGTTGGCGAAGCCGGGTTT  
CAAGCTTTAACTTCAAAGGGCGGGTAATAACGTGTTATCCCACACGAAAT  
CAGTGGGGATAACCCCATGGAAAAGAAACATTGGTGAGCAAAAAGGGCCC  
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>Sequence 505

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>Sequence 506

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ACGTCTCTGTCTGTATTATCGTATGTGATATTATANTNATAATCATA  
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CGTGCTTTTCGCAAGAACAAGACTCTTGGCTATGGAGTCCCCATGTTGAT  
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GGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAATATTC  
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GAAAGCCTTAAGACTAAGACAACCTTGACTCTGCTGATTCTTTTTCTTT  
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TCTATCAAGTGGAAAGGAAATTCCTGGCCCATGGAAGTGGATATGGGT  
AATTTGATGAACAAAATCTTTACTTAAAGGCAAGGTTCTTGCCCGTG

>Sequence 507

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ATAACTCATTTCTTATCTNTTCTCAAGTTTGATGTACGGGTGGCGGCCGC  
CCGGGCAGGTACGCGGAAAATCCCCTAACTTCCTTGCTATCTTCCCATCCC  
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TTTTCATTTTAGGACTTCTCTAATTCATAATGATGTATTCCAGTTTCTCT  
ACAAGCTTTGGCTATTTAGTATATCTTAGCTACTTAAACATTTCTAGAAT  
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TTACCAAGTTCTAAGCCAGCTCCTTTTTAAGCCTACGTCTATGTAAACCC  
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TTTTCTCAGAAAATTCCTCTAACCACAATGGAAATTAGGTGGGGGAAGG  
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>Sequence 508

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Table 2

TATCGTTGTA

&gt;Sequence 509

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TATTCTACTNTTNCATCTTTTTCCTTCNNANGCAAACACNNCCTCNNCT  
TANNCTTTNNANTCAATNCANTTNNCCTTAATNNAATCACAAANTNTCC  
TCCATTACNCANNAANNTNTNNNCATTCAANNCCACAATCCGGGGGGGGG  
GGTNNCTNNGCCACATCANCAAAAATCACATCCACCATTGCNATCCNCN  
TACCTGCCCC

&gt;Sequence 510

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AGGACATTCTCATTTAAACAGTTTAAANAGGCGGGGTGCGGGAGGCGGAA  
AAAAAGAAATATACCCTGGCAGCGCTGCCGGCCGGAAAGCGGAGAGGGAG  
GCTAAGATCAGCAAAATTCGCCAGTTTGGATCCTTGTCTTTTCCGCCCTT  
TTCCCCCATTAATCCAGAACCCGTCACATGATAATTAAGAGGGGGCGG  
CAGTTCGGGCTGCTCAAACGACTGCGGTAGAGGATCCCCCGCGTACCT

&gt;Sequence 511

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NACANNNNNNCCGNNCCCAAAGACTTTTCCACTCTGCTACTCAAGGTGG  
AGTGCAGTAAACCAATCACAGCTCACTGCAAGGGCACACATCACTATT  
CCAGCTAATTAATAAATTTTTTTTTTTCATACAGATAGAGTCTTGCCATG  
TTGCCCAGACTGGTCTCAAAGCCCCGGAACCATGNTTCTTTGGGCGGGG  
GCCCCCAAAGGGCNGAGAAAACAGCCACGACCCACGGCACCAAGCNCGA  
NNGAGGGCGGGGAGACGCCGCAAAAGCAAAACGGCGGCCAAANCNGAG  
GGAGCAANNCGGGGCGAAAAGGNAAACGGAACCAACCACGAAAGAAAACCA  
AAAGAAAACCGGAGCACACAGGGGGAACCGCGCC

&gt;Sequence 512

TGCGT

&gt;Sequence 513

NGCGTTAGGAGCACTCCGCGGNGGCGCTGGANNGTTTGATCAGGACGCCC  
CGNAGNCACCGACGAGGACCAGACGCTGNNANGAACATTTATTCAAAGCC  
CACCCGGNCACAGCCCNAAAGGCCAACCTTTTTTGGAGGNGCCNGGGGANG  
CAAACCGAAAAAAGCNGGAAAAANNGAGGAGNNGAAGCCAAACAGCCAA  
ANNCGCCANNAGGAAGNGNGNAAGGGGTTTTTCNAGTTTTTTTTNNGGGTT  
GTAGANCAACCCNNGAAAAAGNCCGGGAGGACGCCCCAGAACGAGGGG  
GGGGGGGGGGCCGCAAGAAGGGGAGANCAAGCNNANCGANACCGGCGACC  
CCGAGGGGGGGGCCCGNACCCAGGCGGGGGCCCCCAAGGGAGGGGAAACN  
GCGCGCGGGGGGAAACAGGGGCAAAAGCGGGCCCCGGGGGAAAGGGAA  
GCGGCGACAAGGGAAACAGCAAACGAGGCCGGGAGGCAAAAGGGAAAAAGC  
CGGGGGGGGCCAAGGAGGGGGGGGAAACGAAAAGAAGAGGGGGGGGGGCA  
AGGGACGGCGAAGAGGGGGGGAACCGGGGGCGAGGCGGAAAAAAGGAAG  
GGGGCAAGCCCGGGGAGAGGGGAGAGGGCGGAGAGGGGGGAGGGGCAGAA  
GCGAGCGACGACCGAGGAGGGCGGGGGGAGGGGA

&gt;Sequence 514

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCCGAAA  
TCTTACCTTCAGTCTTCTCTGCCACCCAGTCAATTTATGCTTCCTGCAC  
TCTTCAGTGTCTTCAGCAAAGGACAACCTCCTCCAGCTCTGCCTGATAGAA  
CTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACACGTCTTTTCTC  
CAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACCGGGGTAAGCAGGAAGT  
GAAACCACAGAGCTTCAAAAAAAGAGCGGGACAGGGACAAGCGTATCTAA  
GAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATC  
GAGACACATTCTACGACAACCTTTGAAAACGAACCCATCCTCTATGGTCCG  
AGCTACACTTGGCTGTGCTATGAAGTGAAAATAAAGAGGGGGCGCTCAA  
TCTCCTTTGGGACACAGGGGTCTTTTCGAGGCCAGGTGTATTTCGAGCCTC  
AGTACCT

&gt;Sequence 515

Table 2

GCGATTGGAGCTCCCCGCGGTGGCGGTTCGAGGTACGCGGGGACGGCGGAG  
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AGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAAAAAGAAAGAA  
GTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGATTA  
CTTTGCTGATGTTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGG  
CCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAA  
AAAAAAGTACCTGCCCGGGCGGCCGCTCGACGTGGTCGCGGCCGAGGTAC  
AACTGCAGTAAGAGGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCA  
GAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCATTCCGGGAGAACC  
TCTTCGAAAAACAACCCGATGAGACTATCTGGCAAATTGCAGCCCTTGG  
CGGGCTTTTCAAATAGAGCGTTGACCAATCAAAGAAGGGGGACGTTACAG  
GCACTGAAAGAATAACC

>Sequence 516

TTTTGCTCTGTAGCCCAGGCTGGAGTGCAATGGCAGGATCTCAGATCAC  
TGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCCTGCTTCATCTTCCCA  
GGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTGTATT  
TTAGTAGAGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCC  
GACCTCAGGTGATCCGCCCCGCTCGGCCTCCTAAAGTGCTGGGATTACAG  
GCGTGAGCCACTGCGCCCAGCTATACTGTATATTTAAGAAGTTCAGCA  
TGTTGCATCTCTGCATTTATCCTATATCATTAAAAGAACATAAGTTATCA  
TGGTGTGGGTAATTAGCGAAATCAACCCTTCCTAGGTTTAGGGGAAAG  
TTATTTTTAAAAACAACCTAATAAACTTACACTCTTATACAAGAGTGAT  
TTCCCTTATTAGGATGCATGTTGATTAACTCGAGATACAGCTTTTTGC  
AGATGGGGGGTGGGTTGGTGTAACTCTTTAACATGTCACACTGGTTT  
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AAAN

>Sequence 517

AGGTACGCGGGTGTGATCCAGTTCTTGCTTTTCAACGAGAAGGATTTGG  
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AATTGGATTTCTGTTAAAAACACGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCCAG  
CAGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGA  
GTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCTTTT  
CATCGTCCA

>Sequence 518

CACNCAGNAGGCCTCNNAAGCAGGACTAGGCACANCC  
CCCCGGGGGAAGGGNNGAAGGGAGGGCTTTGAGGGCNGAGGGGGAAGCCC  
CGGAAAGNNNNCCNCCANCCAGGGGAGAAGAGACNCGGNAGGGACACGCC  
AAGGAGAGGGAACAGGGGAACCANCACTTTTGTCTTTGGGGGGCACNGN  
GCAGGGACCCCCACAAAAAAGACNCCCCCAGGAGGGGGGGGGGCA  
AGCGGAAAAAAAAAACAAGACCCAAAGAAAAAACAAGGGCACACAAAG  
CAACGGCAAAACCCGCGAACCTGCCCGGGCGGCCCGCCAAAAACCAGGGG  
ACCCCCCGGGCCGAGGAACGCGAAAAACAAGCCAACCGACCCCGCGGACC  
CGCAAGGGGGGGGCCCGGGCCCCAGCATAGGAACCCTAAGGGGAGGCGAAC  
GGCGCCCCCGGGGAACCAAGGGGCAAGGCCGCGCGGGGGGAAAGGGGAA  
GCCCCGAACAGGCCACCAAGACGGGCGCGGAGCAAAAAGGGGAAACCCGG  
GGGGGCCAAAGGGGGGGCCAACCACCATAAAAGGCGGGGGGGCCAGACCC  
GCGGACAAGAGGAAAAACCGGGCGCCCCG

>Sequence 519

TCCCTCCCCAGGGATCCCGGTTTCAAGGTGCGCTTTGCCTCCGTTTAA  
ATAACTCAAGGGGGGAGACGGTTTTCCCGGAGTCGGGTTTACCCTTGAAG  
ACGTGTAGCGAAATCCCCCAAAAGGCGGGAACCCAAAAAAGAACCGTTGT  
TCGAGGGTTCCATAGGN

>Sequence 520

GGAGCTACCGCGGTGGCGGCCCGCCGGGCAGGTACTATGTTGAATAAAT

Table 2

GTTTTTTTCCCTTTTAAATTTTCTGCTTCCCTAGTGCATAGAATTGAACT  
GCTTAGGGAGTTTGAGGCTGCAGTGAGCTATGGTCATGTTACTGCGCTCC  
AGCCTGAGTGATGGAGTGAGAACCTGCCTCAATTAATAAAAAAAAAAAGA  
AAGAAAAACAGTGCAGTGGCTCATGCCTGTCATCCCAACAGTTTTGGAA  
GCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACTTAG  
CAAGACCTTGTATCTTCAAAAACTTTAAAAATTAGTTGTGTGTGGTGTG  
CCTGGCTGAGATGAGAGGATTGCTTGATCCAGGAGGTGGAGGCTGAAGTG  
AGCTATGATTGGGGCACAGCAATCCAGCCTGGGGGAAAAGGGAAACCTGT  
CTTAATAAAAAAAAAAAAAAGAGACCAGGGCGCTTTAAACTAGGGAAT  
CCCCGGGCTGAGGAATTCAATTTAACTTATTGAATCCGTCACCTTAAGGG  
GGCCCGGTCCCAATTTTTGTTCTTTAATGGGGAAATTCGCCCTTTGGAAA  
AAAGGAATAGTTTTCTGAGAAATTTTTATCGTTAAATTCCAAACATACG  
GC

>Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAACGGTGGATCACTCGGCTCGTGCGT  
CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA  
TTGATCATCGACACTTCGAACGCACTTGCGGCCCCGGGTTCTCCCGGAG  
CTACGCCTGTCTGAGCGTCGCTTCAAAAAAAAAAAAAAAAAAAAAAG  
GTCCCT

>Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCTCCGGCTCTAGCTATATAAGACGT  
GCCTGCTTCCCTTCGCCTTCCACCAAGACTGTAAGTTTCTGAGGCCTC  
CCCAGCTTCTCTGCATGCTTCTGTGCAGCCTGCAGAACTGTAAGTCAATT  
AAACCTCTTTTCTTTATAAATTACCCAGTCTCAGGTAGTTCTTCACAGCA  
ATGTGAGAACAGACTAACAAACAATCAACTCATGGCTTTAACACAAAAAA  
ATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT  
GAGAAAACAAAAAGTCCAAATCAAAGGAAAGCACCCGTTTAAACCTT  
CATATCTTTCTCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTCT

>Sequence 523

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GAGGGAACGAGAGTAAGAGAAAGAAAGAGTGAGGGGATGTAACTCGAA  
TAAATTTCAAAGTGCCTCCGAGGGATGCAACGGGCAAAACTGAACTGTT  
CAGGCTTCAGATTGTAAGTGCAGATCTGAGGAAAAATGAGGTTTGTGTGA  
TTTTGCTAAAAATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGACA  
AAGAGCTGAGTGATTTACTGGATTTCAAGTGCATGTTTTACCTCCTGTG  
AGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGG  
CTCAAAATGTAGAAGACAGAAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC  
ATCCAAGCCCCGTCCAGGA

>Sequence 524

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CAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGA  
AAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTTG  
TCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGT  
AGTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTG  
ATGCTGCCCTGTTAGACATCATTTGTAAGTGCTGGAGTGCAGTAACGCCA  
TCTCAGCTCACCGGACCTCTGCCTCCTGGATTCAAGTGATTCTCCAACC  
TTAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCAACCACCATATATGCAA  
TTTCAT

>Sequence 525

GCGTTAGNAGCNCTGCGNCTGTGGCGNCTTCCGATCNTTCGNGAGCTTT  
ACGGNCCCNCGGCCAGNNACCCATTTTTTNNGANGNAGTTNGAGGCGG  
GGCTCCCCGACCCNGGAGAGGAAGGAGACNGTTTTTNNAGGNGCCCCGG  
GGGCCACCCCCAAAAACCCCGAGCCCGCAANNNGCACCGGACANAACA  
NNCGCGNGGCGCAAAACANCAACNGGGAACANCCCCGAGGGAAACCGCC  
CTTTTTTTTTTTTTTGTGTTTCGCAANNAGGGNGCCNNGCGGCCACAA  
GAAAGACAACCAAGGCCCCCCCGGGGAGANCGGGGNGCAGGCCCAACTTTC

Table 2

TGTGGGGGTGTNCTTGNGGGACCACACATCTTTCCTTCCTGGTGGGCAAC  
ATTCACCTGGGCTGAGCGAATGGGCACCTCANTGCACAGAGAGGTGGCTT  
CTGAGGACCCAGCTTCCCTCTCCAAAGAGTGGATCATTTCTTGTTCAAA  
GATCCAGGGACCCCTGACCGTTCCTACCTTTTTGCTGAAGAGATTTATGAC  
CGGCAAGGTGGAGCCCCCTGGGGCCTGGAATGAGCCTCTCTGAAACACTG  
GGGGCCCGGAATTCACGCCCCCTTGGCGCAGGTCACACAGCCCCGGGTCC  
TTCGCCCCCTGGGTGGCTTAGGGCCTCCTGGCATTCTGGAGGGGCCCTAT  
TCTAATACCAGCCCTCATCAAATTGGGGCTACAACCCCAAGGCCCTCTGG  
ATC

>Sequence 526

GCGATTGGAGCACTACGCGGTGGCGGTTGAGGGACATGACATGCCACCAG  
TAAACCTTAATGTCCTTCTTTTTTCTCACTGGGTTTTTCATAGATCGA  
GACATGTAAGCAGCATCATGGAGGTAAGTTTTTGACCTTGAGAAAATGTT  
TTTGTTTCACTGTCTGAGGACTATTTATAGACAGCTCTAACATGATAAC  
CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTTGGGGAAGAA  
GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT  
GTATGGCCCCAGGGATGGCCATATTACTGACCCCTACAGAGAGGGGCAAA  
GGAAGTGCCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT  
ACCTGCAAGGCTTTGATCTTCTTCTGCCATTTCCACAATGGAGATCTCT  
GCTGAGGAGAGAAAATGAACCACTCTTTTCCCTTTGATAATGGGGGTTTA  
TTCTTTAGACAGAAAGAGAGGAGTTATACAGCTCTGGAAACATCCCATTC  
TGATGGGGACTGTGTTTGCCTTTTAGAGGTCCCAAGCCCATAGAGGAGA  
TAAAGGGGAACAGAATTGTATAACTTGATATAATGATCCTAGATAGATGG  
AACTACAAGGGGCTCGAACCCAGAGAGAGGGGGGACTTTGCTT

>Sequence 527

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GGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTT  
TGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCAAGTCACGA  
AGATCATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTG  
TGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTT  
CCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGT  
TTT

>Sequence 528

AACATGGAGNACCA  
CCTCTCCCAACAACCGCCNAAACNNAACCTTATGNANAAGAGNGAAANAG  
GACCCAAAAAGGACAAAAGGGNNCANNANAAAAACAAANNNCCAANAAN  
CCGGCCAANAANANNGCAAAAGNNCCCCCATTTTTTTTTTTTGTGTGTG  
AAAAGGGAAGAACCTAATGCACGCTTAACATCTTAACAGGGTGGGAGTG  
CAAGAGATTGATGAGTCCAAATCTGACCAAGATGGTGATGTTGGATAAGA  
GAATCTCTGGTTCACCTTTAAGTGGCCAGCCCTTCTAGAGGTACCTG  
GGGAGCAACCCGGCTAGGTACATCAAACATG

>Sequence 529

ATTGTTTCAATCTTTTCAAGCGTTTGGCACTCCCCGCGGTGGTCCGCCG  
AGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGGACATA  
ATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGG  
CAACGTGACCAATTTTTGGTCTCAAGTTAAAATACCAAAAATATTACAG  
TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCCAAC  
ATTACTGGCGTGTCTTTTTGTTTGGCTTTTGGAGGCCCTTTGGTGCTGCC  
TATTAATTACGGCGCTGGTTTTGGTTTGTGTTAATACGCTTATTTATAC  
TATTGGTGTTTACATTGGGGATTACAGAATACCTTCTCTTAGGGGGATAC  
CGACATTCACCTATTGGTGGAGTTCCCCGATTCTCAATACTTTGATTGCC  
CACGG

>Sequence 530

AGGTACTTGAAACCCATTTGGATTAATTAGAGGTCTGTCTGAAGGAGTT  
GAAGCTTTATTCTATGAACCTTCCAGGGTGCTGTTCAAGGCCCTGAAGA  
ATTTGCAGAGGGGTAGTGATTGGAGTGAGAAGCCTCTTGGACACACAG

Table 2

TAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAA  
GGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAA  
AAAAAAAAAAAAAGTACCTGCCCG

>Sequence 531

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GACAGNAATAAGGANTNNNAAAAACAATTTCCACCCGACAGTAGNCACC  
TTTACACNGAGGANAACGGGAACCTTTATTTAAAGGATATTGTCTCATTTT  
TAACACNCNGNAANCCANCCTTCCCTGATAATAAATCACTGGAGAACAAA  
AGCGAATAACAGCAGGTCTCTCTTTTTTATTCCAATTTCTTACATTTATT  
GCCAATGAAGAATTCAAATGCCAAGGGCCCTGCCTAGAAAGCCACTCTAA  
AGCAACAAAGAGGTCTGCCAATTCGCTTAAAAACAACCCCCAAGAGAA  
AAAAAATTCAAAAACCTTTATTTAAATGAAACAAGCAAACCTGGGGCCCCC  
CTAACCTTCTTCAATATAAAGAGACCCCGCCCCGGGNNNCCAAATCA  
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CAATTACTTCATAATTACGACACACCACATATTCACCCACACAGGTGTAT  
ACCACTCATATAACCTCACTCATAAACACACATCAACACTAGACAGACTA  
CATAATCAACATCCACAACCTCATCAACAACAACTTAAATGTTCAACA  
AATATAACTACCACACCTAATACACCAAGCTTGTAATACTCATATAAAA  
CAAACTCTCGTAACACTCACTTATACTCTACAAGTACTCTCACTTCACTTA  
CACACAAACACCTCTTATTATCTCTCATATCAATCAATAATCATTGACT  
ATCATACACAACGTATACTACTTCAATAGAATACTCACTCACTCACTTCC  
ATAACTACACGCCG

>Sequence 532

CGAATGTCAATTGAAAAGGTCTTCTCGCGCGTTGAGAACTTTCGGTGNNTN  
GGGAGNGNGATATTTTTTTTATTCAATTCGCGATTGACAGNNNAGATCAA  
AATGTTATTAACACTCTTAGAAGACTGGTTTGTTTCACTTGGACATTGGGAC  
GTGCACCAATTTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATA  
TTTGAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAA  
ATCAAAAACTTAATGCAGTTTTTATTAAGAGAGTCAAAATTTCTCTCAGTTA  
ACTGGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAAC  
AAAAACAAGGAAAAAAGAAAATACATGTCAACAGTCAGTTAAATATTTTG  
ACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTG  
TTACATGTGGTAAAACTTCCAGAAAACCAAGTAGGAAGTGTGGAATAAAAA  
CAATAAAATCAAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATGAAGCCCA  
AGACAGTGATCTTTATTATTAAGGAGGGACCACTGTGTCCACAACATAAAA  
ACCTTCAACCACATGGTGATCTGCAAAGCTTTATTTGAAAAAGACAAACA  
TTCTTTTCTTCACACAAATCAATGCAAGAAATTTTTTTAAGGCTTGTAAC  
TTCCCGGGCCGGCCGTTTTTTAAAAAACTTTAAAT

>Sequence 533

GGTGTAGGGGCACTACCGCGGNGGTTTTTCGAAGNACGATCANNCCCCCA  
GCNGCNGCCNGCAAAGANGAGCCGCTGCGAGACGGGTTTANTCGCNCNC  
CTACCCNGGANCCNNGGCCNNACATNNNCGATTGNGNCAACNGGGCGCCACC  
NCACGGGAGAAGGNCNNGCCGNAAGGGNNNNCACGAAGANCNGCANNNN  
GACCNGNNAGCGGANACCAGGATTTTTTCCAATTTTTTTTCCACGTTTCC  
CACAGGGACACAAACAAGCTCACCCAACAAGCCAACCGCCCCCTGCCCGC  
GTACCTGCCCGTTCTT

>Sequence 534

GCGTTTGGAGAACACCGCGNGGCTTTTCGGGGTCTCTACTCTCTGCAGA  
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TGAAGCCTGATTACTGGAGTGACAACTATTGAAAGAAGCAGAAGCGTTT  
GCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGGCGTGGTGA  
AATGAGGGATCTCTTTGAGAAATTAAGATCACTATTTGGATTACTTCAT  
TCTTCCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGTGAAAT  
TCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAAAAATCTCC  
TGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTCTTTTCAGGT  
AAGACAGAAGAAGTGTCCTGAAGAAGCTAGAGTATATTTATGCAAAACA

Table 2

GCAAGCACTAGAGGC

&gt;Sequence 535

NGACTTTGAGGCAACTCNCGCGCNGGCGCTGCGNCGGNGNCACGACGCG  
CCNGGGCAAAGGGAAGNAACAGACACACGTTTNGNGGGAAGGATGTAACC  
CGGACAGAGGCNCAGNNGGNGGAGAGANCCNCGCATTACCCACCAACC  
AGAACGNGGCCCCGAGAGGCNNGAACNGAGAGAAAGANNNGGGGCGNGN  
CNAANGAAAANANAGACANNNCACANAAGCCTTGTCATTTTCTTTNCC  
GGCGTGACCGNCCACCGCAGAAACANNNCACAANAGGCGNCCGGNNCAAA  
CGGGGGGGAGCACGGACTGTCAGNNCNCNNGGGAAGGGGNCAGCGCANCCG  
GCAGGGCNCNCCNCCCCGNCNNNGGAGAACAGGGCTCNCNCAGGG  
GCCCCAGGGACGGCCAGGCNGNNCCAGCCAGGAAGGCCAAAANCAAGAGG  
GAGANGNAGAAAGGNNGAAAAAAGAAAAAGGGGAGNNGGNGAANCNGNN  
GNNCCNCCCCACAANNNGGANNGGCANAAAGGNNNAGCANGNCCN  
CCNNCCNCACCCCCCNCNNGGNCNCCAATAAACAAGAGAAACNCCAAAG  
GAANGGGGAGGGCCGAACCCACAGGCGGAGAACCCGGCACCCCCAAGCAN  
NCAAGAAAAAGGCGCCCCCAAAACAAACAACCCCCCAAGGG

&gt;Sequence 536

GGCTTTGAGGCACTCCGCGGNGGCCCTCGNCGNGCTTCTCAGCCAGANAC  
GNACAGCCNGAGAGTNGCTGGNAGACTCTTTTANCANCCGCCCCGCCACNA  
TCCATCCATCNGCTCATCCTTTCTCCATCTGCTCAACAAACGCTAGAGAA  
TCAATCCTTGTTGTCAGATACTGGGGCTGCCCTCAAGGAGCTTTTATAGAG  
TTCAGGNACCTTTTTCGCTCTTTTT

&gt;Sequence 537

GGCTTTGNGCNACTCCGCGGNGGCCCTCGCAGTANNATCGNNGGCC

&gt;Sequence 538

GCGTTTTGGGGCACACCGCGGNGGCGTTCNGANGTACGATCNGCGCCCGC  
CAGAACAGGCCACAGCCCAGAGCCCTGCGGCGCCTCATTACNCGGNACA  
AGCTNGAGCGGGGGGACAGGNCGGCGGGTTTTGGAAACACTGGACTGGAT  
GGCACATGATCCAGAACTCCGCTCCGTTTGGCTTCCCAAGGATCCCACCA  
ACTCATTCTAATCAGCGATCACTGTTTTAATTTCTTTTTTNCCTATTCAC  
TATNNCACAGATCAGGCCTACCTCATTGGCATATTAAGAAAGTTGTCTCA  
AGTATATTTAGTGTATCATTTTACTATAGTTCTTCAATGACTGACAT  
TCATCTTTTCCCTACCTCTAAATTCCTTTCTTTTTTACATTATCTTTCTT  
GATTGCTTTTTAATAGAAAAACANACAAAGACATGGATTTACTGTGCATA  
TTAGCAGATCCATACTGGAAAATGCATGGAGGTTTCATATACCACTTA  
CAGAAAGAATAACTCAGAGTATAAAGTCGAAAAGAAAGAACTGAAATAT  
TAGACTTGTCTGGAATAAGCGTACCTAGGATGATACCACTTCACTTAAT  
CAGATTTCCCTTTCCACTATTTAACAGGGCAATATAAAAAACTGGTAGT  
TAAATACACAAGAGGCATTATATTACTGGCTCCTCAACCCA

&gt;Sequence 539

CCGGGCAGGTACTTTCTTTTTTATAGTTTTTTTGTGTTTTGTTGTTTTT  
TTTTTGGTTTTTGTGTTTTTGTGTTTTTCTTTTTTTTTTGGTTCTT  
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCGTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGA  
GTTTATTCTGATTGATTTTTTTTCTTGGTTTCTGGATAAACCAACCTCTG  
GGGACAGGATAATAAAACATGTAATATTTTTAAGAAGGAAAAAAAAAAAA  
AAAAAAAAAGGGCCCCGGGCC

&gt;Sequence 540

CCGGGCAGGTACTTTATTTGCTAAAAAAATGCTAATGATATCCAAACCAT  
CAGTAATCTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCAATTTTGGT  
GGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG  
CAATTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTA  
AATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCTTTTGAGGCCAGGA  
GTTTAAGACCGGCTGNGCAACATGGTGAGACCGTGTGTCTGCAGAAAAT  
GAAAAGAAATTGGCTGAGTGTGGTGGTGCATGCCTATACTACCATCTACT  
AGGGAGGGTAGGATGGAAGGTTTGCTTGAGCCCAGGAATTCAAGGTTGTG

Table 2

CCACTGCACTCCAGCCTTGGATGGCAAAGTGAGATCCTGCCTCAAATTTA  
AAATAAATTAATAAACCANANAAAAAAAAAAAAAAAAANNAGGACCTCGG  
CCGTCTAAAACTAGGGATCCGCCGGCTGGAGGATTTAATATCAGCCTATT  
CCCCCGGCCCTGGGGGGGGGGCCCCCCCCCATTTTTTTCCTTTAAGG  
AGGGTAATTCGCGCTCGCCAAAATATGGAAATACTTTTCCTTGAAAAAA  
TTGTATCGCCCAAAN

>Sequence 541

GGACGGTCAGAACCGATACCACCGCGGGCGGCCTGATGTACTTTTTT  
TTTTTTTTTTTTGTTAAAAGACACAAGTAGTGATATATCAACATCTGTT  
AACTCGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTT  
CTTCTTCCATTACCTTTTCTGATTTCCACTTTCAGTTTCCATTTCGTTG  
CTATCTTCTGGTAGCCACAGCTCAGCTCCAATCTGCGAAATACGGCACTC  
TCTTTATTGACTACTGCTTCTCTCGGCCCCCGCGCTGGCCNACGGGAGTA  
CCTGCCCGGGCGGCCGCT

>Sequence 542

GAGGGGTGACTCCCCGCGTGGCGGCCGCCGGCGGTACAAAATGTAAAG  
ACGTGTTTGTATTTGTAAGGCTGGTGTATTCAGAGAGCATATCTCTTAT  
TCCTCACTTTCCACCCCGTATTTTGTAAATGACCATGATCAATGTTTTTA  
CTTTTGTATAATGGGGTGGGGTGGAGTGGGGGCTATTGACAGTCACCCT  
GAGGTCTTTAGAGGACCAGCTATTGTATCACCTTGGATACTTGAAGTTTA  
ATGCTCAATTGGGTGCGGTGGCATTGACTTGGAGGCTGGCATGTTCCACC  
AGAGCCTGGGGCCCTGTATCTGGGCAGCCTTTGAGGATTACTTATGATAT  
TGAATGACAGTCTTAAGTGGCAACTCACGCCAGCTCATGCCCTTTTTTG  
CCTGGACATGTGCTATTTTTATTCACTTATATGTGATTCACTTGTGAGG  
TTAAACTTTTACATACGAATTGTATTGGGACAAAACGGCTGTTGGGGATT  
ATATATCCCTT

>Sequence 543

GGACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCTTTA  
AAAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAG  
CATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCA  
TTTAATCTTTACAACCTCTCTTGCAAGGTTCCCTGGTTGTGAAAATACATG  
AGATGAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGACAAAGTTTC  
CTGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAG  
ATGAGGCTTCTGGGATAGGCCAGAAAGTTCCTGATGACCGCGACTTCGAG  
CCCTCCCTATGCCAGTGTCGCCCTTCCGCTGTCAATGCCATCTTTAAAT  
GGTCCAATGTTCTGATTTGGGTCTGGACAAAGTGCCAAT

>Sequence 544

GAGAGGGTCCCGGGTGGCGGCCGAGGACACAATACTTACTTACAAATTTA  
ATACTGCTTCAAGGTATTTAATCTAAAATTTTACCAACTTTGATTTGTCT  
GGTTAGGATATTTTGTTTAGTGGATATGCTTTAATTCGGATCAATTACT  
GCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT  
CCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAGTGA  
CCAACCTTGTAACCTGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAA  
AGCAAGAAGAGTGCTGTGTTTGTGCTATATCCCCTCCAACACCTAAGGC  
AATGCATTTACATCTTGCTGAGAGCAGATAACTCAATACCTGGAAGTAG  
AAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATCAT  
GCCACAGCTGAGAAATTGGAGACC

>Sequence 545

ATTGTATATACCGCTCACCAATTTCCAACACAACTATACCGAAGCCCCG  
GGAGAGACATTAAGAGTTGTAAGGCACTTGGGGGGTGTCTTATATGG  
AGGTGGAGGCTTAAACTTCAACATTTAAATTTTGGGTTTGGCGGCCTTC  
ACATGCGCGCGCCTTTTCCAGTTTCGGGGGAAAAACACTTGTTCGGT  
GGCACAGACTTGGCAATTTAAATTGGAAATACGGGGCCCAAACGGCCTC  
CCGGGGGAAGAAGGGCCGGGTTTTTGGCCGTAATTTGGGGGGCGGCTTC  
TTTTCCGGCTTTTCCCTTCGGCGTCAACTTTGAACTTTCGGCTTGTGCGC  
TTCGGGTTTCGGTTTACCGGCTTGCCGGGCCGAGGACCGGGTAATTCAGG

Table 2

CTTCG

&gt;Sequence 546

CCCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGC  
AACCCAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGT  
AATTATTAACAGTGCCCCCTTCACTCTCCAAAGAGTCCCTGTCCAGACA  
GGTAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAGTGGA  
GTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCT  
CAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTAC  
TCTTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAATCC  
AAATCCAGAAACATCAGCGTTTTGAGGTTAACATGTTGGCAATTATTCAG  
CTTTATGAAATAAATATTATCTTTCTTTTCTACCCGCTTGGGAGCCTGG  
CAAAATATGGGGGGACCCCTGGCTTCTTTG

&gt;Sequence 547

AAACAAGTTCACATAATCATCAATTACAATAAATTTTACAATCTCAT  
CTTACTATTTATATAAATATTCCTAATCTGTATAATTTTTATTATATTAT  
ATATTCTTATATTAATTTGAGGCCCCGGGCGCCGAGTCAGGTAAGCCCTG  
GCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCETTCATACATCTCAAG  
TTGGGGGACAAAAAGGGGAAGGGGGGGCACGAAGGCTCATCATTCAAA  
ATAAAACAAAATAAAAAAGTTATTAAGGGCGAAGAATAAAAAAAATTTT  
GGCATTACATAATTTTACACCGAAAAGCAATGGCTTATCACCCCTCCCC  
TTGGTGTGGCACTTTGGAGATGAGGGACCCTGGGCCAATTNTNCTCCTTT  
AGAAGAGGAAAGTTGGGGGTGGGCTTTCTTAGTGAATGNGGCAAGGGGAG  
CTTTCCTGTTTAAACAACCGCCATTCTCAATATTTTTGGGAAATGAAC  
CCTATTAANNAAAAACACAAAAATGTGGCAATCCTAAAGGTCCCTTC  
CGGCGCACCATTTGTTGAAAACCTTTTGTGGGGGNAATTGTCTTCGCTCT  
CAAACCCGAACCTTGCTGTTCAACTCATTCACCGTTTTCCCAAGTTTTT  
TAAAAATTCCTGGAGGTCCAAAGCCCCAAAAAATAAAAAAACCCAA  
AACCAAAAAACAAAAAACCACATTAAAAAGG

&gt;Sequence 548

GGCGCCGAGGTACCCTTTGTAATATCCTTTATATAAACAGTAAATGCT  
GTTTCCCTGAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAA  
GGGGGTTGTGGGAACCCCAATTTATAGCTATTCAGTCAGAAAAAACAGG  
TTAGACAATCTGGGGCTTGCGACTGGCATTGGAAGTGGGGGACAGTTGTG  
CGGGGTCAGCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATG  
AAGTAGAATTGAACCTGGGGGACACCCAGCTGGTGCCACTGCAGAATGAA  
TTGCTTGCTTGATGTCTAGGGAGGCCGAGAAATTATAGCAGGAGGTGAAA  
AGCACTTCTTATTAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTG  
AAACTCCTGATAAACCAATCAGATCTCATGAGGCTCATTAATAAACA  
GAATAGCATGGGAAAGACTGGC

&gt;Sequence 549

ACTTGATAGCGCCGTGCGTGCCAGTGAACCTCTCAGCCCCCGTATGCCGA  
CCTGAACCTCACATGCGTCTAACGTCTATTGCATTCATGTCTGGTGAAAG  
AATCTCAATCATGAATGGGGTACCTAACAGACACCTATCCTCGCTGGCGA  
AAAGAAAAGAATGGGCTGCTCTCAGACCGTAGACCCATAAAGGACCTGCG  
GTCTGTGCCCCCGTCCCTTGCCACACGGCCGACCAACAATACTGGA  
CCCCCTGGCTGTATGAATACGATATCCATCTTATCAATCCCAATAACCA  
CATGGGGGGCCTGGCCCCCATGACTTGTTGCCTTTAGACAGGGTTACTGG  
CTCGCTTGCAAAGGCATGGGCATAACTGGGTGCTGTGCTGAAAACACAT  
CCGCGTCCAAATTTCCCAACCGTACTAACCGAGACCATATAGGGTGAACA  
CCGCGGTGCCTAACGCATGACCTGAACCACTAATTGCATCATACTTAC  
TGCCCCCTCTGCAGTGTGAAAACCTGTCCTGCCAGACCGATGCATGCAGC  
G

&gt;Sequence 550

ACGTGGTTACCGCCGTGCGTGCGGAGGACTACACGATGATCGGTGATTG  
TGCTCATGGGTACCCAGCTGCACCCATGAACTACGCCGAGAGACTGTTTT  
AGGCTGTGAGGGACTCAACCGTTATACTGAATGGAGAGCGGGACCACATA

Table 2

CTGGCTGGAAAGTATACTGCGGACAGTCCGGCCCTGCCCAACCACTCTGT  
GGAGAACCTACGCACTGCACGCCATGCCTGTTTCCTACTCAAGCCTCAAG  
ACTTCTACCTTGATCTGCTTGCCCTTCCTTGACCATCTACCTAGAACTAAC  
CGAGTCCCAGCTCCCAACCTGGCATGAGCTTGACAGGGTGGACCGCCAC  
CCTGCCTGAACCATGGAGACAGCCTCTGGGATTGGAGGCCAGAGGCCAGG  
GTCAGACCCAACACGGACTCCTAATTTGATGTCACAGACGCAATTAATAA  
GCTTATTTAATCCCGCCTGGGAACCTTAAATTATTGCGGGGCGCTCACTGC  
CCATTTTTCAAAAAAAAAAACCTGCCCC

>Sequence 551

GTGATGACGACCGCGCGCGCGCGGAGGTACATTAGCAAAAACAGTGGACT  
TTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCCTACTTTCTAAGT  
CTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTAC  
TCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTCGCTAAGTAATAT  
AAAGACTTTTCCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAA  
TGCTTTTGTCTTCAATGCCCATCTCTTGGAATATTGAAGGTGGAGTAGC  
AACCGGGCATTATATTATCTCTTGGAAGGACCTCAGCAATGGAGAATA  
TCCCCATCATCACAACCTGTCATCACTCTGCCGCACGTGATTGTGGAGAA  
ATCCCTCTCCATGTGAATGCAGAATGAGATTCAATTTACAAAACGAAGCCA  
TTAGGGGGGAGCCTTTTTTTTTTAAACCAAGAGAAGTGGGGGCATCTTTCT  
CTGGAAGATCTGGCCTCATTGCGCCGTGTAATAAATCC

>Sequence 552

TTCTGTGCATTAATTTTATTTTTGTTATTGTGTTTAAATCGAAGATATTT  
TTTTTAAATTACGTTTCGTTAGTTATGTAATATATGGTAGTTGCGTGGTTT  
ATTATTTTTTTAGAGATGAGACGAGTGGCCGGCCCGCCCGGCAGGTACT  
ACAATGATTCTGAAGCACAGTGATTTCAGACAGATACAGTGAACCAAGTG  
CAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTAAAT  
GCCTGTCTTTGCAAAATGTTTTATATTAATCATAAGGGAAGGGAAGTA  
CTGCCTTAAATGTTATCAAAAGAGTTTTCTAACAAGGTAAATACCTTAGT  
TCTTAACATTTTTTTCTTTATGTGTAGTGTTTTCATGTACCTTGGTAG  
GAACTTATTTACAAACCATATTAAGGCTAATTTAAATATAAATAATA  
TAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTTCATTCCACAGAAA  
GGCATTCTCAACCAACCAATGACCAAGGCATATATAGTATTTGGAGGAA  
TCAGGGGTTTGGAAAGGAGTACGGAGGAAGAATGAAGGAAAATGCAACCAG  
CATGATTATAGGGGGGTTCAATTTAATAAAGTTGAAGGCACAGG

>Sequence 553

GAGATGACCCGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTG  
GAATTTTGATGACCTATTGGAAAAGATCTGGGACTATCTGAACTAGTGA  
GAATTTACACCAAAACCAAGGCCAGTTACCAGATTACACATCCCCAGTG  
GTGCTTCCTTACTTCGAGCGGCCCGCCCGGCAGGACTTCACACCAAAACA  
CTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCA  
CATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAA  
TATAAAGGAAGAGAACAAAACACACATTCATACACTCACACTTAAAAAT  
AGGGGAAGACCAACAGGGGAACCTTCGTTCTCTTCTGGATGTCTACTTAA  
AAATCCCATGTGGTACCT

>Sequence 554

GAGATGCCCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTG  
TATTGAAACAACAATACATTTTGCACTGTAGTAATGGGAGCACTAACTCT  
TACAACAGTTAGTGAATCGTTTTAAAGAATCAGTTCAGTGTAGACATTTT  
GAAAAGATTGTTTCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTC  
TGTTTTACTTGCCATTTTCTGCTCTGTTTTCTCTGTGACATGAAGCAAC  
AGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATAT  
TTTTCTGTGTACATTTACATTCAAGTTGATAACACTGGTGGTTTCATTTC  
AATACAAATTATGCTAGAGAATGACATTTTCAGACATGGTCATATATAT  
GCTATTTGAATTCCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGA  
TGATAGATGTGCAGCTAATTTGTCCCGAACTCATGAAGAT

>Sequence 555

Table 2

TGAGAGATCCGGGTGGCGGCCGCCGGGCAGGTACAAGACCATGACACGC  
CCAAAACACTTCCTGCAGATGTTGTCGTTGGAAAACCTGTCGCTTACAGA  
AGCCAGTTGCAAGGACCTTGCTGCTGCTTGGTTGTCAGCAAGAAGCTGA  
CACACCTGTGCTTGGCCAAAAACCCATTGGGGATACAGGGGTGAAGTTT  
CTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTT  
ACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGC  
TCCAAGAAGCCTGCAGCCTCAAAACCTGGACTTGAGTATCAACCAGATA  
GCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAA  
CCTAAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAAA  
ACTTTTGANGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 556

GAGACTGCCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGC  
AGCTGCAGCAAATCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTC  
CATCTCTCTATAGCACACCTTTTATTCTTTTCTTTCTTTTAAAGCCTC  
ACGAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAAT  
GGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAA  
CCCAGAGCACGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCG  
TCTGGGCTTCAGAGGAGCCAGCGCTCCGAGTTGTCTTGAAGTGAGGCTC  
TGCTGTAGTCCTGTTCTTCTGCTCTAAGATCTGAATGTTGTGACCACTA  
ATTTGCTCTTCTGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTG  
CCCAATCTTTTGCAACAGTTGAACCAAGAATCTGAAGCTGATAT

>Sequence 557

TGAGATGCTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAAAC  
TTCTTAGATTTTGACCTCAGTCCATAAACCACACTATCACCTCGGCCATC  
ATATGTGTCTACTGTGGGGACAACCTGGAGTGAAAACCTCGGTTGCTGGCA  
GGTCCGTGGGAAAATCAGTGACCAGTTCATCAGATTCATCAGAATGGTGA  
GACTCATCAGACTGGTGAGAATCATCAGTGTCATCTACA

>Sequence 558

GGGATGTGTCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTGTTTTGAGACGGAGTCTCCCTCTGTTGCCAGTCTGGAGTG  
CAGTGGCATGATCTTGGCTCACTGCAACCTCCATCTCCTGGGCTCAAGCG  
ATTCTCCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCAC  
CATGTCCGGCTAATTTTTGTATTTTGTAAAGACGGGGTTTACCATAT  
TGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCGCTCGGCC  
TCCCAAAGTGCTGGGATTACAGGCCCGAGCCACCGCACCTGGCCTGTATT  
CCCGGTACCTGCCCCG

>Sequence 559

TAGATGACTCCGGGTGGCGGCCGCCGGGCAGGTACGCGGGGGGTGCCTG  
GCTCCGTTTCCTGCTTTTGTTCTTACAGTAGTCGGCGTAGGCCTTAGGT  
GGGTTGCTGCGCCTTCTACCTCGCTGTTTCGGTTTTCTGGCTCCTCGGC  
CCTTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCTGGGAT  
TTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAA  
TCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAAT  
TGAAGAGATCCCTATATGCCCTGTTTCTCAATTTGGTCATGTGGTGGAC  
ATTGTGGCTTTAAAGACCCTTGAAGAAGAGGGGGGCAGGGCCTTTGGCC  
ATAATTTAAGGGAACGGGGCTATTCCACCAAAGGCCTTGAGGACAGGC  
TACAAGGGATTTCCTATTTTAGGGGAAACCCCAAGGGGGAAA

>Sequence 560

GCGATGTGACTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT  
TTTTTTTTTGATCGGCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGA  
ACCCGGGGCCGCAAGTGCGTTCGAAGTGTGATGATCAATGTGTCCTGCA  
ATTACATTAATTCTCGCAGCTAGCTTGCCTTCTATCGACGCACGAGCC  
GAGTGATCCACCGCTAAGAGTCGCCCCGGGTCCCTGGCCCCGGG

>Sequence 561

TAGTACTTTACGCTGTCTGTACATTNTGTCGTATACATGAGTACTGTCA  
TAATACTTTTGACACTTGCTGTCTCTAGTTTCTAATATTTATATTATAAC

Table 2

ATGACATTGATCTATAATTTTGTCTTTTATTTTANANANATATTTGCGAT  
GGCTCCCCGGGTGGCGGGCGAGGTACCATGTGGGAAGCGCTGTGAAGAGT  
TGTTGCCTTTCAAGATATACCCAAATTTCCAGTTCCAGCCCGTGTCTTA  
AAACTCCGCTGGCGTGAAAGATGACGTCCTTAGCCCAGCAGCTGCAACGA  
CTCGCCCTCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGC  
TTCTTTGTTATTTGACCCTAAGGAAGCGGCCACAATTGACAGGGACACCG  
TCTTCGCCATTGGTGAGCCATCTTTAACTTAGAAAAGCTCTTGGAAGCG  
TTTGTCTTCTGGATGTTACTGTTTTTTTTTCCCCCTGTTTTCTCTCTG  
TACCCGTGCTCTTCTTAACAGTTTCTGCATGTTGATGTATATTTTCAAG  
GGAAAGAGATCATTAACACCATGTGCTTGGTGCTTGAATGTTTATTAAT  
TTTGAGCGCGCGCGCTCTGGAACCTGGGGGGCCCACTGGC

>Sequence 562

AGAAACATTGTGAAGCAAATAGGGCCAGTCAAAATGGCCCATTTGATACCG  
TTAAAAAAGGGCCGGCGTTTGCTGGGCGTTTTTTTTTCCAATAGGGCTCCC  
TGCCTCCCCCTGAACGTAGTCAATCAACTAAAAAATTCGGACCGCCTCAA  
AGGTTCAAGTAGGGTGTGCCGAAAAACCCCGTACCAGGGAACATTTAAA  
TGGATACCAAGGGCGTTTTTCCCCCTTGGAAGCTTCCCTTCGTTGCG  
GCTTCTTCCCTTGTTTCCGAACCCCTTGCCCGGCTTTACCCGGAATAACC  
CTGTTCCCGGGCGTTTTTCTCATTTTGGGGGAAAGCCTTGGGGGGCTTT  
TCTTCATTAGCCTCACG

>Sequence 563

GCNNAGCCCGGGGNGATCCNATCTAGNTTNTNAGNAGNCNNGGCCGNN  
CCCGGGGCCAGNGTAACNCGGGNNGGGGCCCGGGAAGGTTGGGAAAA  
AGAAAAAAGGGTTTTCTTAAAGTTGGGGCTTTGGGAGGGGGTAAATTC  
CCCCAAAAGGAGAGACCGGGGGGCCCCGGGCCAAAACGCGGGGGGGGG  
GGGGGAAACCCTCCCAAATTTGCGCCCCCTAATAGAGGGGGGGCGGTAT  
TTAACC CGGCGCTTAATGGGGCCCCGGGTTTTTAAAAACGGTGGAAC  
TGGGAAAAAACCCTGGGGGGTTCCCCAAATTA AAAAGGCCTTTGGGAAG  
AAATACCCCTCTTTTTGCCGGGTGGGGGGAAATAAAAAAAGGGGGCC  
CCCACAAAAGGCGCTTTTTACAAAAAATTTGGCCCCCTCTAATTGGGA  
GAAGGGGGGGCCCCCTTTTTTGGGCGGAATATAAAAAGGCGGGGGGG  
GGGGGGTGGGGTTTTTCCCCAACCGGGAGGGCGCGTTATATTTTTGTG  
GGGGGGCCTTATTACGGAGCCTTTTNTNNNNGTGTTTTTTCCCCCTCT  
TTTTTTTGTGGGAGGGAGC

>Sequence 564

AGGTACCAAGTAGGATAATTA TACTACTGCCAACACACACATGCACGCATGC  
ACACACACACACAGATGTATGCACGCACACACACTCTCACTCCTAGACTG  
CTAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCTGGCCCGGGCG

>Sequence 565

NGGATTGGAGAATCCGCGNGGCGGTTGGNNGCAATTA TACTAGACCTCNGA  
CCNCGGCACTAAGCANCGNACCCTGAANAGANTGTTATCCNCCCTCC  
CCCNAGAGAAACCNCNGCGCCANGAGTTTCAAGNNGAGGAAGAAGCGACT  
GCGCAAGCNGAAGCGCAAAAGAAAGANGAGGCAGAGGNCCAAGNAAA  
CCGCNAGCNGNNGCACCGNNGGAGGCCTTTGTTTTTTAGGTTTTGAANGC  
CAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTGCT  
GAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGGCC  
TCATCACCAAGGCCTAGGGCGGTATGAAGTGTGGGGCGGGGTCTATAC  
ATTCTGAGATTCTGGGAAAGGGGCTCAAAGATGT

>Sequence 566 -

TCGAGTACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACG  
CATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCA  
GTCTCTGCCAGGGGAAGATTCCTTGAGGAGGCCCTGCAGCGACATGGAG  
GGAGCTGCTTTGCTGAGAGTCTGTCTCTGTCATCTGGATGAGTGCAT  
TTTCTTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAAC  
AAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCTC  
GGTACTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGA

**Table 2**

GGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTAC  
TCCTGCTGACTG

>Sequence 567

TGGATTGGGCCCCTNCGCGNGGCGGTTGANGGCNTTTCGNNGCCCCNCAC  
CANNNNAAGGNCGAGGGNNNCCCTGGANGANTGGTTANTCGGCCCCCCCC  
CGGGCNCNGCAGCCGNCANNANCGTTGANGCNCGCGCGGGCGCNGCCCC  
TGAAAAACCCCGNACCNGCCCGGGCGGCTGCNCNAGAACNAGNNGGANCCCC  
CGGGCGGCAGGAANNCGAGAGCAAGTTTTTCTTTTTTGGTTTTCCCGAGG  
GGGGGCCCTTTTCAAAAAAAAATGTCCCCCAGGGAGGGGGAGGGCGCG  
CTTTTTTTTTACAACGGCACAGCCGNNCCCCGGGGGAAANNNGGAACCGC  
GCACAAANCCACACAACAGACGAGCCGGGAGCACAAGGGGAAAGCCCCG  
GGGGGCCAACGAGGGAGCCAACCCCCACCAAGGG

>Sequence 568

GCGATTGGAGCTACACCGCGNGGCGGTTTCGGGCGAGACNNCTCTTGNC  
CATCTTCTCCCGCTGCTGAAATTTNCTTGGCGGGCGCTTTAACCCGAGGA  
CCCCCCCCCGCGTACGCTGGATAGCCTTTTTTCCAGAAAGAGAGAGTA  
GCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTG  
TCAGCTTCAGGAATCCCCGCGTACCTGCCCTTTTCTTTTTT

>Sequence 569

GCGCTTTGGAGCNACTCCCGCGGNNGGCGGCTCGAGNGACAATTACAACC  
CCGNNNAANCCAAGGGNNNAGGGNANCAAGCTGCTGNGATNNACTAATAC  
ACAAACCCAGACAGCAGNAAGGNCAGAAGAACCTTGGAGAACAGCAGAA  
GCAAGACCGCAGAACNCNGAAGGCGAGAACACAAGNCAANACANNNA  
CNNAAAAACAACGCGAGAGAACACNGGGAAAAATTTCTTTTTTTAGATG  
TCCACAAAAAAGGACATGTAAAGGGGAAGGTCAAGTTGTTGAGACAGCTA  
CTTTATTCTTGGGATGACTGNGGAGGTGGTGGAGATGAGCCTTGTTGCC  
AGATTTCCGTTTCGTAGTTCACGAGTCGTTGACCCACAAGGTACCTGCCCC

>Sequence 570

GCGATCGGAGCAACCCGCGGNGGCGGTTGANGNCGCGACAGCCGANGAAA  
GAAAAAGGGAGCCAGGCCATTTCCCAGCCGATTAANCCGNGGGGGGAA  
CGGGGNNNAACCGGGGAAAATTTAAACCCAAGAGGGGAAAAACCCAGAA  
AGGCCANGGGGCCGGGAAACCCAACCCAGGGGGGAAAAAACCCGGCCC  
CCCCGAAAAAACCCCCCCCCCCCCCTTTTTAATTTTTTGGGGGGGGGCCCC  
CCAAAAAACCCCCCCCCCGGGGGGAAAAAACCTCCAAAAAAAACCC  
CCCCCCCCCCCCCTTTTTTGGGGGGGGGAAAAAAAACCCCAAGGGG  
GGGGCCCCCGC

>Sequence 571

NGGCTAGGAGCACACCGCGGGCGCTGGGGCCAAACAACCTGTCTGTAAGAG  
GGACCTCTCATGGTTACAGGCTTTGACAACCCAGAATCAAACCTGGAGAAC  
ATTCCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGGGCTGAAATG  
GAATGTGCAAATGTAGCCCAGCCTGGTCCCTTGGGTGTTGCCAGTTGATTG  
ATGACTGGGAGCCAAAGTGGCATTTTCTTTGACCTAAACGGGCGATGATG  
AAATAAATCGAGCGGCCCGCCCGGCAGGTACATCTGTGAATGTGAATGCC  
AAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTATGAAGGAAATGGGACA  
TTTGAGTGTGGCGGTGCAGGTGCAATGAAGGGCGTGTGGTAGACATTG  
TGAATGCAGCACAGATGAAGTTAACAG

>Sequence 572

GGCGTTTTGNGNCNACACCAGCGGNNNGCGTTCGNTGAGNGATCNGNCG  
GCCGNGNNNCNACCCGCGGNNCNCNTTACTGNGGGCTTTGAGGCNCC  
CGCCACGGAAAAAGNNGGCCCCCGAGCCAGAGCTTTGCAGCCCNNGNAG  
GGCGNGGCCCCAGGCAANGGAAAGNNGGGANGNAAAAACGAAGNACAGGAGC  
AGANNNGAAGAANNACAAAGNGAANNNGGNGCTTTTCAGTTTTTTAGAGAG  
TGACCACANAGCCTCTACTTCTCTGATAAAAAATGTTGGGAAAACACCTG  
AATTAAAGGAAGACTCATGCAACTTGTTTTCTGGCAATGAAAGCAGCAAA  
TTAGAAAAATGAGTCCAAACTATTGTCATTAAACACTGATAAACTTTATG  
TCA

Table 2

## &gt;Sequence 573

CCCCAGAAAAAAAAAAAAAGGCCCTGGGGCCACCCCAGANAGAACTCAGGG  
GACAACCACGCGGCGGCGGCCCGCCGGGCAGGAACANAGCCCTCAGGGGG  
GNCGGAAACCCCGCANAGGACAGGACANAAAGGAAAAACAAAAAGCGCAA  
GCCGGACACACACAGGACAGCGAAGGGCAACGAGACCCAACGCCGGAC  
ACAAGCCAAAAACCAAAAAACGAGAACAGAGACCACGGGACGGAAGCCAA  
AACGACAAAGGGGGAGACTGCAGCCACAACAAGACGGGCGGGCTCGGCGC  
CCGCAAAGGAGCGCCGCGCGCGCGCGCGGAAGAACGCCCCGCGCCCCC  
GCCGGCGGCGACACACAGCAAAAAACAACACCGGCACGCACCAAGGGGG  
AGAAACAGCCGCCCCCGCGAGACGGGGGCGCCCCGCACACCAAAACACC  
AAGACAG

## &gt;Sequence 574

## &gt;Sequence 575

## &gt;Sequence 576

NGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCC  
TCTCTCCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGA  
AACCATGAAGAGCCTGATCCTTCTTGCCATCC

## &gt;Sequence 577

CCGGGCAGGTACAGAGAGCTCTTACTTACCCCCCTTCTCTTCTGGCTGG  
AGCTCGGCGAGCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGCTAACAAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCTTAGTGTCTTGCATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGA  
AGAGTGACAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGT  
CTTCTGATGTCTATCATTTCACTGTCTAGGCTACAACC

## &gt;Sequence 578

GCGATTGGAGCTCCACGCGGTGGCCCCGCCGGGCAGGTACCTCACAACGA  
GTTCAAGTCAGTAGCAGAAGGATCTTCTCTCTTGTCTCTGATGATTTCAAG  
GTCCTCACAGTCTTGATAATCTGGTTCTTCCCGAAACTCCCAAATATCTA  
TGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCA  
TTAAACATGTCCATGTATTGCGAAGTCTGAGGAAACTCAAGCTCCTCCAG  
TCCTTTTAAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAAATCCTTG  
CCAACAACCTCTCCTCAAGTCTTTGAAACTGTTCCCAATGATGACCATC  
TTAGAAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCT  
CGGCCGCTCTAGAN

## &gt;Sequence 579

NGGAATTGGAGCTTACTGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGG  
GTTTCGATTCTTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGT  
TGGCAGGAGGAAGAATGAGTCTACTTTGGAGACAATTAAGTCATGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGGCTACATAGACATCTTCTCATG  
TATTGTTACTAGAACAACTTGTATAGGGTTTTATGGTTTGGGGAACAT  
TTTTAAAAAATGGACTTATCTCTATTATACAGAGTTATAATATAAAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTACACTGTAATCCTGT  
TGAAGAAACTTTCCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG  
TCTTCTGATCATAGCTT

## &gt;Sequence 580

AGGTACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGA  
TCTGAGTGGCCTTTTCTGCACCCCTCCCTTCTTCTCTTTGAATGGAATT  
AAACCCAATTGGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTT  
CTTTTTCTTCTCCAGTTTATGTTGCTTTTATTAAAAAAAGAAAATAGT  
GCATGGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGAT  
GGTATCAAAGCACAAATACCTTGGAGGGGAATGCGTTGAACTGGGGCAAG  
TACCTGCCCC

## &gt;Sequence 581

CACTCGGCACTCTCGGTTCTCTGCTATTTTAATTGTATTTTGTATAATAA

Table 2

CAATACGTATTTTACTACATTCCCTTTAATGTACATAGATATCATATACTT  
ATTTATTCATTAANTTATATTATGGTTTAGTAGTGAGCTC

>Sequence 582

GTTTTAGAGATGAGCTCACCGCGGTGGCGGCCGAGGTACCAAATTGTAA  
AATACTCGAAGGCCTTCAGGAACCTGTGACTGATTTACATAAATACCAGA  
ACCTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTT  
CAAGCTGCTGTCGGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGA  
ATTCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCAT  
TACACTATTGTGCACATTAAGCCAATTTTCTGATCATCACATACTTGTTG  
TAACTGCTGCTGGGGGCATATCTAAGCTTTACGT

>Sequence 583

GCGCTAGGAGTACTCGCGGNGCGGTTAGGGCTCTACCGGACCNCNGACC  
CTCCNGGAACCGAAAAGGCTGGNGCGGGTTTCANCCAGGNCNCACTGANN  
GNCGGACCACANGAGNCAAACTTAGGNCNAGCNCAGAGAAAAGCCCGAGAC  
AGCAGGGCAAAGCGCGCNGCGCCCCGNNNGAACANCGCCAGCCNCCTC  
ANAANCCANNNCCAGACAAGCTTTTCAATTTTTCAAATCCGACATCTA  
CTCCAATACTACATGATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGA  
GATGAAATGGTAAGTCGGGCTGCAGCATCTCTGTTCAAAATATACACCAA  
TTTCTGTTTCTCAATGGCACTAATCATAACGGCTCGCCCTTGGGATCCA  
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>Sequence 584

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TGTGCTTGTGGTTGGTTCTTTCTTCTCAGGCTTTCCTATTCTGATGCTGA  
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>Sequence 585

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>Sequence 586

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CACAGAGGAAGGNNAGGAGGCCNGCAGGNACCNCGGCCGCNCAAGAACN  
AGNGGANCCCCGGGCGGCAGGAATTTTAANCTTTCTTAGGGGTTCGNG  
GACNCCCCGGGGGAGACGGNACCCAGCCCCGCNCCCCGGGAGGGAGGGN  
NAACNGCGCGCNGGCGNAANCANGGGCANAGCCGNNCCCCGGGGGAAAA  
NGNNANCCGCNCACAANNCCACACAACAAACGAGCCGGGAGCA

>Sequence 587

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AGGCAGCTGTAGGCGTTTTAATTGGAAATAAGCAATTCTGAGATAATGATA  
ATAGCAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTGAGAATCC  
TCCTGTCTTCTGGGATTTTTATTTAATCATCTCCTCCACAGAGAACAA  
GCAGNACTTNTTTTTTTTTTTTTTTTTTTGGGGTTTATTTTATGCACAA  
AGAGCCATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAA  
GGAAGATCACTTAGTCCAACCTAATGAAACCAATATCCTTCGCATACT

>Sequence 588

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Table 2

GNNCGGGACAAGAACCGNGAAGGGTTGATGGACAGGGAAGAGACCAACGA  
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TGGTCTATGAATCAGACCAAATCAAGGTTTTTTTGTCTGTCCAAGGAGGAG  
ATCGCTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCGAGATTTTGG  
GGAGGCCTTAGTACCT

>Sequence 589

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CGATGTCAAAGCAAATCAGCACAGCATCCGAATCAGGGTAAGAGAGGGGG  
CGGACATTGTATAGTAAGGAGAATCCGAATTTTCCACAGGCTCAACTC  
TATTCTTTGTGTGTCGATTTCAAACTGGCCGTGTAATTCTCAAACTG  
TAGGAACGTAATTCTCGGGGAAGCAGTCCTTGGCGAAGACATGGAGCAGC  
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>Sequence 590

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CGAACGCCGANCAACCNCGAGACCCACCTTTTTCANAAACAAAAGGCCCA  
AGCCGGAACACNGCCNNGGACCNGNGACANNNGGACNANNNGNNGNNN  
AANNNGGCCGAGNGAACAACCATTTANATTTTTTCGTGTTGNNNAGC  
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CCCGCCTTTTT

>Sequence 591

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>Sequence 592

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>Sequence 593

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CCAGGGGGCCACCCACACCCCTTTTTGGGGGGGGGGCCCCCCCCCTCCCAA  
CTCGGGGGACCCCTTTTGTTCCTCCCTTCTAATAGAGTCCCCCCCCCGG  
GGGGGGGGGGGGGAANAAAAATTTCTTTTCTTCAATTATAAAAAAGGGG  
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>Sequence 594

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Table 2

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GCCCATTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAAGG  
GCAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACATGC  
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GTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGACCTATT  
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>Sequence 595

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AAG

>Sequence 596

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TATTTAACCTGAAAAAAAGTTGCTAAAAATCCAATATAAATGTAAATATC  
TTTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGTAGTGGGGCAAAAT  
GTTCAAAAAGAAAAATCATCCAGTGCACGTAGATGGGCACCAAGAAGCTAA  
GCTTCCCTGGCGCCTACCCTGGG

>Sequence 597

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GGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGG  
TGGCCAATACAAGTCATTGCCAGACAGTCTTGGAGGGACAGAACAGCCC  
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>Sequence 598

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TAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACA  
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CAGCCCCCAGAAATGGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAA  
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Table 2

## &gt;Sequence 599

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GCCAGAAGATACAAAGACAGACCATGCCAGTTGAATGCTGTCTTCCAAGA  
ACAGAAGAAAATGATCCAGGCCAGGAATCCATAACACTGGAGGATGTGG  
CTGTGGACTTCACTTGGGAGGAGTGGCAACTCCTGGGCGCTGCTCAGAAG  
GACCTGTACCGGGACGTGATGTTGGAGAAGTACAGCAACCTGGTGGCAGT  
GGGGTATCAAGCCAGCAAACCGGATGCACTCTTCAAGTTGGAACAAGGGG  
AACAACCGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTTCAGAC  
ATATGGGAAGGCCCTTCATGCCCCTGGAACGCTTGCCAAGGGAAGCCTG  
GGGGACAAAAGGAAACCATGTGATGGAC

## &gt;Sequence 600

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GGCCCCCGGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCC  
TGGCTCCCAGCCCCCTCCTCCCTGGCGCCATGGAGCCCTCCCCACGAGCCC  
AGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCCTCCTCGT  
GGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCC  
ACCCAACTCCCTCGCCGGGCCAGGCCTGCCTGCCATGAACATGGGCCAG  
GAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACTTCGATCCCCTACTG  
CTTCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGGAGGTGGGCC  
CCTGGAACACCCATCATGCCTAGCCCTGGAGATTCCACCAACTGCAGCGA  
AAACATGTGCACTATCATGAACCCCT

## &gt;Sequence 601

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ATTAAAAGATAGTCAAGAAATTCGTCAATATAGCTGCCAAAATAGACAGC  
TACATTTTTATGATATTGTCTCTTTTCTGNTTTTTTTTCTTTTTTTTCT  
TTTAGCTATTTTACTTAAGCATAATAGCCACAATAGGACATATAAAAGAT  
TATAAATACAGAGCTTTATTATCTTGACGTCTTGGGTCTTTTAAGTATAT  
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CGATGTTT

## &gt;Sequence 602

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CACCTCATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCT  
ACCCCATGCCACCCATGACCTGTAGGGACCACCTCTAGATGCCTACTCG  
ACTCAAGGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCA  
GGTGGCAAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGAT  
TCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGT  
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## &gt;Sequence 603

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TATGATGGGCGGCCCGCCAGCGTCCGGGAAAAATTACCTGTCTTGACTGC

Tabl 2

CATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTTAAAC  
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CCTGTATATTTTACTTTGTTGCAGATAGTCTTGCCGCATCTTGCCAAGTT  
GCAGAGATGGTGGAGCTAGAAAAAAGCCCTTTTCAGTTT  
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CTTGCTTTTCTGGTATGTTTCTAGGATGTATTGTGACTTTTAACTGTTA  
TATTANATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGG  
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TTGATATTTTAGAGTCAGGCATTGGTTATACATGTGTAGTTCCAAAGCAC  
AT

>Sequence 604

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GACAATACAAAGTTACATTTTGGACCATATTAAGTCAAGAAGACAG  
GGGTCTTACTGAAGATCTTTTAGAAAACCTTAAATCCTGTCAAGGATATT  
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GTAACACAGAGTTTTTTTAAACAAATTTAATTATTTAGCTTTATTGAAGT  
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TGGAACCTTTTCTTACTGGGTACCTGGGACCACTTTTATGTTAGTTTT  
TGATGCATAATTCTTTGGAATCCCTTTTATACAAAACCTTAAATTGTTGTG  
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>Sequence 605

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TACACGTTATCAAGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACG  
GAGCCATGATACAATGTGATGGTCAAAATCAGATCCCGAGGTTTCAGAAA  
ATCCCCCAGGAAAGGAGCTAACGAATCCCTCTCCATCGTAATTTATCCT  
CATTAATATCTACTCCAACAAGCAATTCATGATGGATTGACTTTTAGC  
AGCCTTAAGAGTGAAGTATCACCACATCCAGGTCTGCAACCTTCTTAGG  
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>Sequence 606

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CAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTG  
TTGCCAATTGGGTAATTTTCATTAGTTGTTTGTGTTGTTGATTGAAA  
CCTGGAAATACAGTAAAATTTGACTGTTTAAAAATGTTGGCCAAAAA  
AAAAAAGGTCCGCGGGGCGGAGGTGAGGACAAGATGGTG  
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>Sequence 607

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TAATCTTATTATTATTACTATTCTTTTATTATTCCTATTTTATAT  
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AGAAGAAGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAATT  
GGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGAAAGACTGT  
TCCAAAAACAGTGGATAATTTTGTGGCCTTAGCTACAGGAGAGAAAGGAT  
TTGGCTACAAAAACAGCAAATTTCTATCGTGTAAATCAAGGACTTTATGATC  
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>Sequence 608

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TCTGCCGATCGACTTCCGCTCGGCAGTCAACATACTGCCAAGGAAATC

Table 2

TGATGTGGAAGGAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCC  
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AAAGTGGA AAAATGTGCGATGATTTCAAGCTTTTAGATCAGCAAGCCAT  
CCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTC  
TGGTCCATGCACGCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTA  
CCTGCCCCG

>Sequence 609

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CATGTGCCGCTAACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAACT  
CAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGA  
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ACCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTTATTATTTAT  
ATGGAAAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTT  
GTCCGTGACTGTCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCCT  
TGTAAGTTACTGACAGGAAATTGACTGGACTGTCATTTGTGTTGAAGTCTA  
GGAGGGAAAATGGGCCATTTTAATTGTATGAATTTTGGTCATAAGTAAGGA  
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>Sequence 610

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AAATATGCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCAT  
ACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTCA  
GGTGATGTCTGTATAATTTTAAAGTGCAGCTCTCTAACAATGTGCC  
CTACAACTCCTGATTAACGGCGCTTGAAGGTTCAAAAAAAAAAAAAA  
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>Sequence 611

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ATTTTTTTTTTCTTTTTTAGTTCGACTCACGTGTGGCGGTGAGGTACTT  
ATGAGAAATTGGCATGCCTTTGCTAATTTTACTGCAGAGTGTAATCCAT  
GTTTGATAGACATTATAGTAATGTTTGAGTAGGGTATTGTAATATTCT  
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CGAGCAATGTGATCTCAATTTGGTGTGGACTTAGGCTTCGCCCTTTTCC  
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GATTCTTTCTCTACCAAGTAGACATTATAGTCTCAGGGGGACGTTCTCTT  
CTCTCGTGTGGGGTAACAAGGTTCACTAGAGGCCACCTTATAATTTTTCC  
CTTCCCTGGCCTTCAAACCTTGTGAAAAAGGCCTTTGTCTACCATTAAA  
TAGGTAAACCATGGCTAGAGGTTTCATTTTCTTCCCAAACAAGTATTCTT  
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GTCTTTGGTAGGTGAACCTTACCAATAGTTTGGTTCTAGGGATGGATAT  
TCTCTTGAAGGGCCTAGGCAAGTAACCCAACAAAGGGAATGGGCCCCC  
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>Sequence 612

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ATGGCCATCTACTTTCCTTAAACCTTTTCTCACCACACCCACCTTCCC  
ACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCTCAA  
GCTTCTCATGCAGTGCGTATTGTATTTCTGCATAAGAAAGGGCTGCCTC  
TAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGC  
CAAGTGTTATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACC  
ACCTTTTGTAATGGTTTGGTTTCTCACTGTTATCTTCTTTCTATAATT  
AATTTATTTTAACTTACAAATTGACATAGGGCTAAAAGCTTCAATATTT  
ACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC

Table 2

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>Sequence 613

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NNNCACNCNGAGGGGANGTTTTACAAGNNCACCCGGGNCCCCGCTGGGG  
AAAGGAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTATTTAC  
TTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGGCCTT  
GATGGGCTTCACACAGTACCTGCCCC

>Sequence 614

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ACCATAATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGA  
AGGAAGGGTGTATTACGGAAAAAGCTAACGGCACGACGTTATTTTTCC  
CCCACAATCTTTCATACAGGAATAACAAATTGAACTTGCAAAAGCACTA  
AAACATCACATGTAAACCCAGCTAACAGAAAAATACATTACAAAGCGTTG  
TTGGTGGTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACA  
GAAGGGAGACTTTGGCACGGCTCATTTTTTTCAGTCTATAGTTACATGAA  
GTTTACAAATTAGTTGCCCTATAAAAAGGAACCCCTTATTCAATACCCCA  
ATACCAAATAAACCTTTTCTTTCACATACTTAAAAAGAAACCGGGTTAA  
CTAAAAAGAGGAAAGAAGAAGGCC

>Sequence 615

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TCACCTGCCTTTGTACTATCAACTCTTATTAGATTAAAAGGAAATAGACT  
GAAATTGGGAGNGAGGTCAGCGCTGGCTGGATAAGATGTTGGGCTCAGA  
AGAATGTATGTAAAGACACCAAAGGCCTCTCCTGTATGGACACAAAATC  
ATATAACCACTGTGTCTGAGCTGGGTGTGGATAGTCTTATTTGGCAGAG  
GGGGATAGCCATTATATTCTATGAACCTTGCCAGCTGTACCT

>Sequence 616

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CAGGGGTCTCTATGACCTTTCCCTCCTGCAGTTCAGTCTAGTTTCTTCT  
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TTCTCTACTTTACATCAGTTTGAAGAATGCATTTCTCTTGTGGTATTCT  
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>Sequence 617

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TTTTCAAAATAAAGAATTTTTTTTACTGGATTTTAAATGGGGGTGTGCCA  
ACTCATTAAAGGATTTTATAATGGGTGGGGCCCCCGGGCCCGGCTTCGAA  
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>Sequence 618

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GACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCA  
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AAGAGGTTCTTTTGAAGACACAAGATATGGCAGTGAGAGACCATAACGTG  
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Table 2

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ACTCCACAGTGATATATTTTGGCATTATTTTCTAAAAATAAACAAAAA  
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CTAAGGAATCCCCGGGCTGAAGAATTCGATATAAGCTTATGGAACCGCGA  
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>Sequence 619

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CTTCAAAAAACATGTGTATGGTGAGGAAATCCAGTTTTAAAGTCTTGATT  
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>Sequence 620

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>Sequence 621

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>Sequence 622

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>Sequence 623

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Table 2

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TCCATAAAAACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTTG  
CCTTCCTTGTGTGNGAGCAAGTAAAACTCCAAAAAAGAGGTGTTGTACCT

>Sequence 624

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>Sequence 625

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CCAATCGATTTGTTCTCTCAGTGTCATCCTTCCAGCTCACTGAGTCTCTC  
ACATAGAGCTCATCCCGCGTACCT

>Sequence 626

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AGATGTA

>Sequence 627

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TTAATACCGTATCTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTT  
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>Sequence 628

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ACCT

>Sequence 629

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CGTGCCATCAGTGTGCGACAAAAGACCATCGACACCAAGACAGTGTGTCGA  
ACAGTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGT  
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>Sequence 630

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CAGGTAAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTA  
CATGGAGAAATTAGGGGCTGATTTTTTAAACTGTGTGAGATATTAACAG  
CCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTACACCGATTAA  
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Table 2

CATTTAAATATAAAAAATTTAAAGTTAAACTCTAGCCCTTCAGTGAAGG  
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AAGGAAAGAAAAAAGGGACAAAAGAAAAATATGTTTGGCCAGTATAA  
TACGTTACATATAAAATGCATCTGATTACATTAACAAGGAAAAGAAATA  
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>Sequence 631

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CCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACA  
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TTGAGAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACA  
CTTCACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCG  
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>Sequence 632

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CCATGGCGGTTTCCCTCCTACAGACTCTCGCAGGCGCCTGTTTCAGCCAG  
AGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGTCCCAAATTAC  
CTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCCAATCCTCAAAA  
GGAATGAAGAAAAACCAAAGAGCAAACTCAAAGATGATTTTACCATAA  
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>Sequence 633

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CTTGA

>Sequence 634

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GGTCTCTGTCTGTACTGTTACTGGGATTATCCAGATACACTATCAATGATAC  
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TCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTATTCTAACTC  
AGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTTTGCCTCAT  
CTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATT  
TTACAGGCACAATTTCTGGCTGTAGTCCCTGGGGCATTTATTTGCTTGC  
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CTCCACTTTCATTTAGCATGAAATAAAAAATAATTGGAATG

>Sequence 635

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GAGGTTATTTCAAGACACACACTTGCAAGTAATCTTTCTATAGAAATGG  
CCACAGCATTATAATATTCAAATATGGAAGATTGACAGTCTGAGGATTT  
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Table 2

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>Sequence 636

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GAGGTACTAAAGGGCAAGGTTCACTACAAAAAGGAAGTTGTCTAAAA  
GCAAGAATTCAATTAACGCTGGGTAAGAAAAGTCAAAACACTAATGAGTT  
GTCCATGAAGCCAACTGCTAAGAACGCGCTCACTATACGCGACATGAAG  
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GATAGTACCTGCCCCG

>Sequence 637

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TCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAA  
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ATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAG  
ACCAATGTTTCATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCAT  
TGTGCAAATCTAACTTCATGGCCTCGCTGGCTGTATTCCTTATATGATGC  
TGAGACCTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAA  
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>Sequence 638

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TAGTTTACAGAACAACACACAGCAAGACCAAGCTTATGCTGAGTTGACG  
GAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCTGAAAT  
TGTTCTTTCTTAACTTTTGCAATTAATCAATTTATTTTATAAAATAAT  
GAAA  
AAG  
AGCCCCCNCTAAAAAAAAAAGGGTTTAAAAAATTCTCCCTCTTATTGGG  
GGGGGGAGCCGGGGTTTTTTCTTTTTTGGGGGCCCTCAAAAACGGTTTTT  
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>Sequence 639

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GTCCCTTTAGCTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACCT

>Sequence 640

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GCTGTCTACCGGTGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTGG  
ACCTGCAGTCCCTGGCCTTCCGCCACCATGGAGTACCT

>Sequence 641

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TTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTGCCTCAT  
GGGAAACTCGGGAAAAAGACTGCAAAAAACAACATTGTTTCTCCCTTTGGAA  
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CGCTAGAAGCAAGATGGCTGAACATACTCATGTGAATGTCAAGGAAA  
AGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATA  
GTCCTGGTGCTCCAACAGTTTGAATTTAATGTGGATAAAGCCGTGCAAGC  
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Table 2

## &gt;Sequence 642

GCCGAGATGACTCCCCGGGGCGGCGGGGACTTGGAGAATATTTCCACAA  
TAGCCGATGACTTGTTCTTGTGACAAGAGAAAGTTCTTTGGCTGTTACC  
CTCAATGATAGTGAGGTCCATTGCCGTCTATTAATGGAGATGATTCCAT  
CTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGCCTTTCCTCTGCG  
CTGCTACCAGCCCTGTACAGGTCCCCGGCGCTCTACCTCCCCGCGTACCT  
GCCCC

## &gt;Sequence 643

GTTGAGTGAGCTCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCT  
GTGCTAAACCAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGG  
TCCATCCATACAAATAAACAAAATCCTATCCTCTTCTTTCTATATTGTGT  
TTCTTACATTTCTTATACAAATAACAGAATGCTTCAATTTTATCACTTCA  
ATAGGACAAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATC  
CCAAATTTTATGCTTATTTTGGTTTAGGGCTATCAATTTTCTGACATAT  
TAACATAGGCAGGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAA  
ATGTCTGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGT  
TTCCCATCTCTTCTTTGCTTCAAACCCCCATGCAAGTTCTTCTTTTTTC  
GGGCAGGCTGTGAATATTCAACCTCCTTTTGGCTTTTACAAAGGTGTGG  
CAGGCAACTGCTTTGGCAATTTTACACCAAGCTCTCGAGTAGCTAGCTG  
GTTGCTGCGGTC

## &gt;Sequence 644

TGACGACGTGGAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTC  
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GGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCTCTCTGGACT  
CATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCC  
ATCAAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTC  
ATCACGTTCTATCTCAGCCATCCATTTGGGTGGAGAAGTAGTAATAGGAC  
TTTTGAAGGAAGCTGCAAAATTCAGCAACACCTGGTAATTGTTCTGGCCAA  
AGATCTGGTGAGGCACGGTCAAGTTTTTCAAACCTTAGCAAAGATGCTTC  
CAGATCTGTCCCGTCTGTGGGAGACGCCATCTTCCAACCCATGTCACGTC  
CCCCGCTACCTGCCCCGGCGGCCGCTCGAGCCAGGAACCGTAAAAGG

## &gt;Sequence 645

TTAGCGTGAGCTCACCGGGTGGCCGGCCGCCCCGGGCAGGTACTTCAGGGA  
GGCCTATATATTGGCAGCCAAGGAATGCCAGGACTGCCACCTGCTGCTCC  
AGCGTTAGCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTGTCTA  
TTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGG  
CCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCT  
ACAAGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGA  
CTGCTGGCCCTCCTACTCTATCC

## &gt;Sequence 646

TCCACTTCCCTTTCAATTTTGTTAGTGATTATTGTTATTAATATCTCTTT  
ATATTTTGACATTATTTTTTAAATTATATGTTAGTTATTCATTCTTATC  
TATTATTTCTTAGTAGTGTGACTCACGGGTGGCGGCCGAGGTACCGGCC  
AAGCCTGGTCCOCTTCTTGTGGGCACTGTGTATGGGCGGAGAAAATCCA  
GCTTGTTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGGAGCCCAGG  
TCGTTGAAGATGCCAGCTGCGATGGCTTCGCTACCCAGATTCTAGGCTTC  
CTTCTCCTCATGTCTGGCCTAAACTTATCTTCAAATACAGACCATTTGCT  
GCCAAGGAGACAGAACCCATGGTGACATAAGGCAACTTATCAGTTTGAT  
CCATGAGGATAGATGCTGTAGAGGTGAGGTCTCAGTTACATCTACTTCCC  
CCTAAAACTAGGGCTGCACCAATGTAACCTTGATACCTGAAAAGCATCTG  
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GGGAGTGGAGCTCCAGGTTGGAAGAAATGAGCTGGGTTGTATGTCTGTG  
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TATTTTT

## &gt;Sequence 647

Table 2

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TTAGGCAATGATTCAAAGATGTTTGGTTTTTAAATTCAAAACCCCTCCAAA  
GGTCAAACTCTGGAAAAAATTTTTTGGTTTTCCCCCTCCACGTTTTTTT  
TTTTAACCCCTTAAAAAAAAAAGGGGCTTACCCTTAAAAAAAAAATTTT  
TTTTTTTTTGTGCAACCCTCTTTTTTTTGC GG GGGGTTTTTAAAAAGGGG  
GAAAAAAGGGGGGTTCTCTCTCTAAAAAAGAGAGGGGG  
GGGGAGAGGGAAAAACAAAAAATCTCTCCCTTTTTCTTTTTTTG  
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CCCCACCACTACTTATTTATGTTTTTTTCCACTATCAAAACAACGCTG  
TTGTTTGTGG

>Sequence 648

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CCCCACGGGGACCAAAAGGTTAACCCGGGGACCCCGGGGGGGGGGGG  
CCACAACCCCAAGGGTGTTAAACACGGGTGGGGGGGGGAAAAAAGG  
GGGGCCAAAGGGGGCCCCCCCCCTTTTCCGGGGGAGAAAAAGGGGG  
CCCCCCCCCGGAGACCCGGGGGGTTAAAAAAGGGGACCCCCCGG  
GGGGGGGGGAATCTATATAAAGTTTATTCCCCCCCCCGGGGGGGG  
GGGCCCCCCCCCTTTTTTTTCCCTTTTGGGGGGGAAAAAGACCGCGC  
CGGAAAAAATATTTTGGGGGAAAAAATATTTTCAAAAA  
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>Sequence 649

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TCATTGAGGAACACGATTGAGAGCTTCTGCTGTGCAGTAGGGGGCATCAA  
TAGTTTCAATTTCTTTTATTGTCTGCTACCATTCATTGTATGGATTCAA  
CCTAGTCTGTTTATTCATTCTCCAGGCTTCCACCAGGCCATCTCTTC  
ACTTCGGGGGCACCT

>Sequence 650

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ATATGTAATCCAACCTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAG  
AAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATG  
AATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTC  
CAAGGGAAGCAGAAAGAGTGTGTTTGAAGGAATCATAGCCTTCTTCAGTG  
CACTAGATAAGCAGCACAAATGAGGAACAGAGTGGTGACGAGCTATTGGAT  
GTTGTCACTGTGCCATCAGGTGAACCTTCGTATGTGGAAGGCACCATTA  
TCTACACATTGTGTTTGCCATCAAATTGGACTATGAACTAGGCAGAGAAC  
TCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATACTTA  
AGTCCCTTCAGCATTGCTCTTCTGTCTGTCTGTAACAAGAN

>Sequence 651

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CAATTGCTGGACCAGGTCAACATCTTCTGTTTGAACAGCTTTAATCAGCA  
AGTGATTGCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCC  
TCCTGGGGGTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTG  
CTACCACTTTTAGCCTTTTCTTGGAAAAATGCAAATTTATCTCCTAGCA  
CTTAATCAAAGAAGCTTTGAGTGAAATTTGGGATTCTCTGGCAACAGAGC  
AGCAGTATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGC  
TCAACTCAGACGTCTCAATTATTCCTTTGGCAGCCGCAAAGCCTGGAAGA  
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Table 2

GAAGGAAAGAGCATTCTCCTTAGGGCAGCAATCACAAN

>Sequence 652

GGAGATGGGTTGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG  
GGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAGGGGCTA  
CAAATGCTTGACTCAGTGATGCAGAACCTTTCAGAGTTAGCTGGAAGCCA  
CAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGAGGAGAC  
CCCTTCCCTCTGTGGGGTTTGGATCCTGTGTTTCTAGCCT

>Sequence 653

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AACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTGCAATTGCAT  
TGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTTTGTCCTA  
GTTTTGTCTTTCATAGGTCAAACTGGCAATATTCTCTTGTCTGCAAGA  
TAAAGTGTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGA  
TACAATTTCTGCTTCATCAGTTTCACATGTTTCATGTTGTCAGTAAAAAA  
TGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAATCCTTTTTTCTT  
TTGAGATGGAGTCTTGCTCTTGTGCCCAGGCTGGAGAGCAGTAGCGCGA  
TCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCAAGTGATTCTCCTGCC  
TCAGCCTCCCAAGTAGCTGGGATTTACAGGTGCCCCTACCATGCCGGGT  
AAATTTGGTFFFTAGGAAAAAGGGGTTTTGGGTTTTGGGCGGGGTTTT

>Sequence 654

GTGTGGTCGAGCTCACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAA  
GTAAGTTCTCCATCCCATAAAGCCATTTAAATTCATTAGAAAAATGTCCT  
TACCTCTTAAATGTGAATTCATCTGTTAAGCTAGGGGTGACACACGTCA  
TTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCAGAATACTCCTGGT  
CAATTGTAGGTATTCTTTTTGGTTTAAATTTTTGCCAATGTAATTAAAAAA  
TGGTATGTCATTTTTAAAAATTTGATTTCTTTTCATTACAAATAAGATTGT  
TATGTCAGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTC  
TGTTCAATTGTTTTACCTGTTTTCGTTTTAGCAAGTAGTACCTGCCCG

>Sequence 655

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GATGAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCT  
ACAAAGAAAAAGCAGAGAACTGTTAGATAATGAAGAATTACAGAACTTAT  
GGTTTTTGCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCG  
ATGATCAATTACGAAAATTTTTGAAGGGTGGTGAAAAAGCTGGAGCAAA  
AGGCAAGCAATTTTCACAACAAAAGTCTTTGCTAAACTCCTTCATACAG  
ATTCATATGGAAAGATTTTTCATCATGCAGTTCTTTAA

>Sequence 656

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CGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAAGTTTG  
GTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTT  
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AGGTGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG  
ATGGAGTGAGGAGATTTGGATGAATGAACGCTAAGATGGCCAGACGCACC  
TCTTGGATCGTAACTCTGCAGGCTGGGATTCCAGAGCTGCAAACAACCAC  
TGAATTCGATCTGTAAACCTGTTGTCATTTGACGTTTGCAGGCAGGCATC  
AACATTTACATTGAGATTCAATAGACGCTACTACTACAAAGGAGCTTTAT  
TGTTGCAGCTTAAATGGTTGCTGCGGGAACACTGAAGGGTGAAGTAC  
TTTTTT

>Sequence 657

GGTTGTGATGACTCCCCGGGTGGCGGCCGGGTACATTCCAATGAAGAATT  
TCTTCATTCTGATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCT

Table 2

TTACTCTTAAGCCTCGAA

&gt;Sequence 658

CCTTCTGCTACGTCTGTATTCTATTCCCTTGTGAAATGCTCTTTTTTAATA  
TACTTGTGTCGTATTTTACGTGTTTTATTTCAGTTTTGGTTTATACTGT  
GGCTATGGTAATTGAAATGGGGGCGATGGAGCTCACGGGTGGCGGCCGAN  
GTACCTNGTGGGCNTTAGGTCAATGTTGTTATACACTTTCACAAAAGATT  
GTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCACT  
TTGCGGGGGTAGCGGTCAATTCAGCCACCAGAGCATGGCTGTAGGGGCG  
ATCTGAGGTGCCATCATCAATGTTCTTCACGATGACAGCTTTGCGTCCGG  
AGTAGCGTCCAGCCAGGACAAGCACCACTTCCCAGG

&gt;Sequence 659

GGAGTGAGCTCACCGGGTGGCGGCCGCGGGGCTGGTGCGCCACAAGGCA  
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ACTAAAGTTACTTTGTGCTGAGAGGGGAAAGAAGCACAAAGTTTGGTCT  
GTTGCGTAATTGAATTTTAACTCTTATCCACAACAAACACTTTTTTCG  
TGTCTGTGTGTAAGACATCAGATATATTACAGATTTTCAAACAGGT  
GAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGG  
AGTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTGTT  
CGATCTCAACTCTGCAGCCTGGGATTCCAGAGCTGCAAAACAACCACTGAA  
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CCAGCTTAATATGGTTGCTGCGGCAACACTGAAAGATGAAACTGACTTTT  
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&gt;Sequence 660

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TGCACAGTGTCTCTGTGGTGACGAGCAGGGCTTCATCCAGTGCCTCTGTC  
CCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGA  
GACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAAACAATGT  
CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAA  
GTGCTCCTGGGACTCCAGGATACAGGCATCTGGGTAAGCTACAATGCTT  
AACCACCTTAACACAATCAGGAAGCAACAGCCATGCATTCGGGAAAGGAAC  
TTCAGTGTGTGTGGCTCAGTCTCCAGACCTAACTTCTTTTGGTACCT

&gt;Sequence 661

GGCGTGGGATCGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGAC  
TTTTTTCTCACCATGAATGTCACCCAGAGGTCAAGAGTCGTGGGATGAA  
GTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCC  
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&gt;Sequence 662

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TTTGGACAAAACAACGA  
GTTTTTTTAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCAC  
AGCGAGG

&gt;Sequence 663

GTAGATGGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACTTGTGGAAGG  
TAGTGACCAGCACAGCCAGCGCCTGCTCCAGAGAACTGCACATCA

&gt;Sequence 664

TATGCTACGGGGGCGGCGCGGCAGGTACGCGGGGCGGTATCTGTATCG  
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GACCCCAATTAAGGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACC  
TTAAAATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTT  
TGGATAATGTTTGCAGCTTCTCAAGCTTTTAAAATCGAGACCACCCAGA  
ATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGACGA  
CCACAGGCTGTGAGTCCCCATTTTCTCTTGGAGAACCCAGATAGATAGT  
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Table 2

GATCCTGTTAGTTTTGGGGACGAACACTCTTAACCTGTGCACACAAACTT  
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AAAGATCAAAGATTATTTTGAGTGCCCTT

>Sequence 665

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TGGAGCTCCTGTAATAAGAATGTGGTTGGAAGATGCAAAGTGTGGATGAT  
CATCACCTCCATTTTCCTAGGTGTCATTACAGTGATCATCATAGGCTTAT  
GTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAATGAAATACTTGAA  
TTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTG  
TGTGCTGAAGAGGAATTGCCTCACCTGCTCACCAGGAAAGGCTCACAGATG  
TGTACCT

>Sequence 666

GATGACTACGGGTGGCGGCCGCGCCGCGGCAGGTTTAATCTCAGGTCTCCC  
TATACACTTCTCAGCCTCAGCACCTAACCTCACACAACACTCCAGTATT  
GGATGCAGTCAATCTGTATAACATTTTTTGAATGTCCAATGTGCAAAGC  
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACCTTGTCTCTC  
AAAGATG

>Sequence 667

TACGAGATTGAGCTGAGTTGGCGGCCGCGGAGGTACTGGAGAGTCGGCTT  
TGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGCGGAATAAACAGGAG  
CTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCACTTATCTGAGGCC  
TGGGGCTGAAGCCAGCGCTGACGGAT

>Sequence 668

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TTTTTCTGGTCGAAAATTTTTGTTGGAATTTTAAAGAAAANGAAAGGCAA  
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TGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTAGTGTTAACA  
ATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAAC  
CAGCAGATTTCCAGAACTTTATGTATTTGGGAAAAGTAAATATACAAC  
AGACATATCCCTGCCCTGATTAAGAGGGTAGATAAAAACAAAACATAAAA  
CAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATACAACAGAAT  
ATAGGGAGAGAGCAACTACAGAAAGACAGAAAGGGGTTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAACAAATCTGTCAAGTCCA  
AAAACGAAGATATTTCAATTCACCGCTGACTACTGAATGGGAAAC

>Sequence 669

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GCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTG  
GAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCGCATTGGTGCAGA  
TGCAGCCCAGGTTGGACTGAGTCACTGCCTTGCTGCCCCATCCCCATCCC  
ATCATGAGAAGCTAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTT  
GGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAATTTCTCCAT  
ATCGTTTCTAGTTACCCTAATCTCTGCACAAATTTGTGTGTTACAGAAG  
CAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAATCAG  
CANAGAGGAGCGAGAATAGCAGAGTGGGAGTATGATGCGACTGGTGGCTA  
AACAGAGAAGAGAGGGATTACGATCACTGGAATGGATGGGTG

>Sequence 670

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TTTAAACTTTTAGGGTCTTGGCCTATTGCATACTAAAGGGCAAAAGGCTT  
AGAGATATCAAAGGGGCTAATTTTTTATTGACAGACCATGGCGATGTA  
ATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCATTTGCAAAAC  
GAAAATCTTTTATTGGCAECCCTTACTGGATGGCCCCAGAAGTTGCAGCA  
GTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGG  
AATAACAGCAATTGAACCTGGAGAACTTCAGCCACCTATGTTTGGATCTC  
CACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCC  
AAAACATAAGGACAAAACAAAATGGGTCATCAACATTCCATAATTTTTGT

Table 2

CAAAATAAGCACTAATCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG  
CTTAGAAGTANTGGATTCCCCGGCTGCAGGATTTCGATATCAGCT

>Sequence 671

GTCGATGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCA  
TGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT  
CTCCCTGTCTCCGGGTAAATGAGTGCGA

>Sequence 672

GATGACGATCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTG  
TTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGT  
AAATTCTTCTTACTACCTATGACCCGTGAGCCAACCACTTTCCGATGCC  
AGGGTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATAC  
CCTTCCACTTGGAAAGACTACAGAGGAATCTTGCATGCATAGTTCAAAC  
TAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGG  
TAAATTTTGAACCAAGGGAATCATTTAAGAAGTGCTGGTATTTTTCAA  
ATTTCTGTGAGTTGTTACATTTGTCATAAGTAAATGTTAGGAATAAAGG  
ATGGAGACATGCTTATTTTATTTAACTCCCCNNNNNAAAAAATAAAAA  
AAAGTACCTGCCCC

>Sequence 673

TGCGTGTTGGATTGAGCTCCCCCGGTGGCGGCCGTCCCTCTTAATACTG  
GCCTCAGTTCCGAAAACCAAAAAATAGAACCGCGTCTATTCCATTAT  
TCCTAGCTGCGGTATCCAGGCGGCTCGGGCCTGCTTTGAACACTCTAATT  
TTTTCAAAGTAAACGCTTCGGGCCCGCGGACACTCAGCTCCGCGTACC  
T

>Sequence 674

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GAAGTCTGCATCTGAGGTTGCTCAGTGTCGGGTCAATTCATTTACACATT  
TTAACTTGCAATAAAGAGCTGTTCTTTCTGTGGCCTAGACTCTTTTAC  
TGATCTCAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAA  
AAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAGTGTCTATTC  
TTTTTCCCCTTTTGAGCAACTTACACAGCATTTTAAACACCTTTTTTT  
CTAGTTTTTTGTTCCGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCT  
AACCCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGT  
GATCTTGTTGAGTTAAGTCTGATCTTGATCTTAACTCAGTAAGCCACT  
ATCTGCAATTTTGTAACCTGCCCC

>Sequence 675

GTTGATGTAGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCT  
GTAGTGGCTTCGTCTTCGGTTTTTCTCTTCTTCCTACGCCTCCCGGC  
TCTCGTCAGCCTCCCGC

>Sequence 676

TTTTTGTTTGATCGAGCTCACCGCGGTGGCGGCCGCGAGAGCACAGAT  
GACCACGCCATCGTCCAGTATGAGTGGCACTGCTGCAGGGGGACCCGTC  
AGTGGACATGAAGTAACGCATGTTGTCACTGC

>Sequence 677

TGAGTGAGCTCACCGGGTGGCGGCCCGCCGGGCAGGACGCGGGAAGGATT  
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GGGAAATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTA  
ACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTTGCCTTAAAGCTGTT  
TTTTATGCTGTAAAAACCAAAATGGGTTTGGTTCCCTGATAGGTTTAAAT  
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GGTTTTCCCTTTTTTCCGGTTTTTAAAAAAGGGTTTTTTTAAACGGGGG  
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TAGGGGATCCCCCCCCCGGGAGGAGATTTGATTTAATAAATTTTTTCCC  
CCCCCTTCGCCTTAGGGAGGGGGGGGGGCCCCCCCCCTTTTTTTTTTTT  
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>Sequence 678

Table 2

GAGAGTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTGGCAGACG  
TCGATGATCGAGTTCAAGGCTGTCTCCAGCTCGGCCAACATGA

>Sequence 679

TGAGTAGTCGAGCTACCGGGTGGCGGCCCGCCGGGCAGGTACTGGTGTT  
GTGATCGGAACGTGTCGATCCCCTCTTCTCATCACTGCTGCTCCAACCTGG  
ATTTATTACTCCGGGAATGGTCTGAGGGGGAAAACCAATGTGTTTAGCGT  
GCCTGCCCACCTGCGCCTGAGCACAACCTATCCTGCAATCTGACCTGCCCC  
TCCTGCACAGGAAACCACCTTCCCCTCCCAATTGATGGTTCAAACACTGC  
CACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAAC  
AACTTATTTTTTAGGATTTAACGACAACCGGTTGAAAAAACGGTAGGGT  
GTCATGCTCAGAGAGATAAAGATTTGTAGAAAAGGTGCTGAACTGCCAA  
GGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCA  
CTGAACGACACCAAGCACCCCATGCACTTCTGGGGCCAACTTGGCCCTT  
GGAGAAAGACACCTGAATTTGGCATGCAGTCTACTTCN

>Sequence 680

TGAGATGTGATTGAGCTCCCCGCGGTGGCGGCCCGGTACAAGGGGAGGTA  
AGATGGGAGCTCCACTCCTTGGACCACCAGCTGGTTCTGGACCGTATCCC  
CATGAATCTGTTTGAACGTAAGGAGGAAGTCAAAAAAGTTCTTATTTAGG  
GTTTCTTTGAGATGTGGGGCCACTTCCATTCCCACCCGGCACAGGTAGGC  
ACGGGCATACACCGACACTAGTGGGTCTCCGATCCCCTCTGATCATGCATG  
TCAACCGGGGAGGCACTCTGAAATTCCTGTTTGGAGAGGAATTTGTTA  
CATTTCAGGATGGATGCCTCCACGTAAAATCTTGAATGAGTTCCCTGAT  
GGAGGCAATCTTGA AAAACCAATTTAGGCATGTTTCTTGGCCGTGTCAT  
TTGCATTCTCTGGAGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACA  
CACATGGAAAAGATGCGCTCGTACCTGCCCG

>Sequence 681

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TACTAAAAATTTTATACTATATTGATCATATATAAAATATGTTTATATAT  
ATACTTTTATATAAAAAAGAGTGTAAGGAACCTCTCGGGTGGCGGCCGA  
GGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTGAGGAAATTTTAACA  
CTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCTGCT  
TCACCTTCTGCTGCTTTTGGGACTTTTATGAGCTAGTTAGCTAAGGACA  
AGACCCTGAACCCATTTTTTCACTGGGAGAGGAAAACCACCAGGCTTCTC  
AGCTTTGGCTTGGAACCTCTGGAGTTCTATGGCTTCCATCAGGGCTCCA  
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AGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAAACACGTGGCGTAT  
GATGATTTGAGGAACCTGGACGTAGTTCTGCATGCTGCGGTTGGAGCTTTC  
GGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTTTGGTAGCGGC  
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>Sequence 682

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ATGTTGTATTCCGCTGGGTTCGAGGGTCTCAGGCAGAGTGCGCAGGCTCGA  
CGGCTTATACTTTGGGAACGACA

>Sequence 683

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GCTTATCACCTTTCATGATCACGCCCTCATAATCATTTTCCTTATCTGCT  
TCCTAGTCTGTATGCCCTTTCTTAACACTCACAACAAAATACTAATAAT  
ACTAACATCTCAGACGCTCAGGAAATAGAAACCGTCTGAACTATTCTTGC  
CGGCATTATTCTAGTCTTAAAGGGCCTCCCATCCCTACCCATCTTTTAAA  
AAACAAAAGGGGAAAAGATCCCCTTCTTTCAAAAAAAAAAATGTGGCC  
CCAAAGTTTTTTGGCCCTCCGGGGCCCTCGGGCCTTTTATAAAAAAGGG  
GGACCCCCGCGGTGTGGAGAGAATATTATAAAGTTTTTTTTTCCCCCCC  
CCCCCGGGGGGGGGCGCCCCCCCCCATTTTTTTTTTTTTTATGGGG  
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Table 2

## &gt;Sequence 684

GCGTGA CTACCGGGGGCGGCGGGACCCCATGCAATATATGGCTCTACAA  
TCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTG  
AAGATTTGACGAAGGCGAAGAAGCTGCAACACCTTTCGAACCTTTGGGCT  
CACTCCATTGATACCTCTGATTCTGATGACAAACGCCAATTTGGGTCTG  
CAGGTACGAGGACATTTTGCCCCGCGGCTTGTTGGGGTCTCCTTTACCCA  
TGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTG  
GTGCGAGCTTTTCTCAGAGTCCCGCAGA

## &gt;Sequence 685

GAAGTGTACAGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTGAGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATAGA  
GCGATCCCAGCTCACTACAACCTCCGCCTCCAGGTTCAAGCAATTCTCC  
TGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGCAACCATGCC  
AGCTAATTTGGATTTTATAGTAAGATGGGGTTTTTCCATTTTGGCAGGCGG  
GTTTTGACCCCCACCTAAGGGGGGCACCCCTCTGGGTCCCAAAAAGGG  
GGGTTAATAAGGGGGGGGATTCAATTCCCCCGGTAAAAAAAAGAAC  
CCCTCCCGGGGGTGGTAAATTTTAATATGTTTTTCCCTCCCCCGGG  
GGGGGGGCGCCCCCCCCCTTTATTTTTTTGGGGAGGGGCCCTCCCC  
CCTTTAAAAAAAACCAATTTCTTTTGTGGGGTGATTATTAACACCCCA  
ACCCAGCGGGGGG

## &gt;Sequence 686

GTACGACGATTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACTTTT  
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TTTTTTTTTTTTTTTTTTTTTAAAACAGGAATCTTCAGACTTTATT  
AAAAAAGGCCCTAAGGGGCTCTTATTAATAAAGGTATAAAAACCCATA  
AATTCGGGGCCCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAGGGGAGGA  
AGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACCAGGGGGC  
ACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGGATATGGG  
GGAAAGGGGCCACGGGTTCTCACGCAACAACGGGGGAAGGCCGGCGACA  
GTTTTTCCCAAAATTCTGGGGGAAGGGGGTCCCT

## &gt;Sequence 687

TGTTGATATCGACTCCCGCGGCGGGACGCGGGGCTTTACATGGCAACAAG  
TATGGCGGCTGCTAGTGGTAGATTTGAAAGTGCGAAGAGTATCGAAGAGC  
GGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAA  
GCCAATTTTGAAAAAGAAGAAAGCGTAAAGAACTTAAGCGACTTCGGGG  
TGAGGATACATGGATGTACCTGATGTGAATGAGAGAATTGAACAGTTCT  
CACAGGAACACTTTGTGAAGAAAAAGAAGAAAAAGACAAGCTTCTATT  
AAAGAAGGGAAGATTAATCAGTACCTGCCCGGAGT

## &gt;Sequence 688

GACGCGTGAGCTACCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTT  
TGCCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGAC  
GCGGCCACCTCCTGCTGCGTTCGGTTTCCA

## &gt;Sequence 689

TGAGCGTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACAACTGGG  
CACTGGATAGGTAGTTCTTTGGTGGTCAAGGTGGCTCTACCTGTCCTTG  
AGCTCTCGTGTCACTCGCTTGGTGATCCGTCCACACATCAGGCCAATCAG  
GAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGTAGTTCTTAG  
ATGGAGACGTACTTACTTGCAAGATCAGAGAAGCCATCTGCTGGG  
GCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGC  
TGGTGGCAGTGCTAGGTCTAACTTATCCCTCTCAGTTCTAGTTTATTT  
ATGTCTTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAAAATCAACACA  
GAGCTACAACCTTTTTTCTGCTCATAAACTATACACAGTCTACTGCA  
CAAAATTAGGAATACCAGAAGAGCCAAAGTGGTGCAAGTACCCACAATTT  
CTCACAGTGATCACCATAACACCAGGACC

## &gt;Sequence 690

TGTTGACTGTGACTCCACCGCGGTGGCGGCCGAGTTTGATTCTTGCAAGT

Table 2

CCTGAGCGATGGAGCCCCGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTC  
AGATGCTTGGCTTGTTTTCAAGAGAACCTTTTCGATATTCATTGCTCC  
ATCGATTGGATCCAGTCCTTGTTCAAGAAAATTGT

>Sequence 691  
GGAGACGGAGCTCACCGCGGTGGCGGCCGAGGTACTACAGGAAGAACTA  
GAGGAAACGGGAATTTTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC  
AGAACGGCCAGTATGTTATTCCTGCAGGCTGCCTAGGGTGCTCTCCTCA  
AACAGATCACCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCA  
GTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGA  
TTACTGTAATTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCT  
ACCCTGGGGAGAACTTGATGCTAACCCACAGGTACCTGCCCCG

>Sequence 692  
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TTTCACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGA  
AGAATTTTTTGATGACCCAAAAAACTGGGGGCAAGAAAAAGTAAATCTG  
GAGCAGCATGGACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTA  
CACAAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCT  
AGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGT  
TAGATAAGGTAGTAGATTCCATGGATGCAATFAGATAAAGGTTGTCCAGGA  
AAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGAC  
CTGGTGCTTGAAGAAGAGACATTTTTGGAAGAATAATTGGGCACAGGTTT  
AAGCAGGGGGGTTATACCTGGGCACCCTAATAAAAGATACAATTGGAAAC  
CGATCTTTGCCTTGCTTTATGGGACCCATTTCTTAAACTG

>Sequence 693  
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CCGGACTCCCCAGCTTTTGTATCCCTTTAAACGCGGGTGTAACCAGGCT  
CCCTTTGATGTGAATATCCTCGACCCTCCCTTGTATGACGCGCGGTTAA  
TCTATATTAGTGCCGTTTTATTACCTTCTCTCCCTAGTTAAACCTAACCC  
CGTTTGGGCCCTAGGGTCGTTTAAGGCCTTGGGGCCGGCCGTGATTTAAA  
TTTTCTCTCAAAGGCCTGTAATTTACCGTTGTTTCCCACTGAAACCA  
CGGGTGCG

>Sequence 694  
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Table 2

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Table 2

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Table 2

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Table 2

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>Sequence 1102

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Table 2

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Table 2

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TTTTTTTTTTTTTTTTTTTTGGTCAATTAGTTATTAATTTTACACAGTTAA  
CACTGAAAAATGAATGATATTTAATCATTGTCACTTACTGAGAAGCAAGA  
ACAAATGAGTGAGCCCAAAGGAGTCTACTACCATACCTATTAAGTGTAGGG  
AAGGGTTTAAGTATTTTTTACATACTTTTCTTCTGTCATTGGAAAAACAC  
CCCCCATCTGAAATGGACAGAAGAAAATTTTCCCAGGTGTTTTACTCTC  
ATCAGAACAGCTTGGGGGACGTGACCTTCACACTGTTAGCTTGCCCCCAT  
ACTGCTTGAAGGGCACCAGTTAAGAGCTGGTAAAGGGAGTCTCTTTAAAA  
ATACAATTGTGGGAGATCCCACTTCCAAAAGGTATGGACCAATGCTTTTT  
TCCAACAGCAATGAATGGTGGGGCTGAAAACCAAACCTTTACAGGCCCTGG  
CTTAGGCCTGGGGAGGGGAGAACCAGAGCATGATTATTGGGAGTTTGAA  
AGAAATTTTGCCTAAACCCGGGCGAAATGA

>Sequence 1108

CCCTTTTCGAGCGGTTTCGTTTGGCATGTATAATGAAATGTCTTTTAAAAA  
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TCACACATTTTCCCTAACTTCCCATGTTCTGGATCTGGGGACTGCAATAT  
TACAGAAATATGCAAAAAAAGTTTAGTGCTCAGAGATAAATAATTTTTT  
TTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAAAAGCCAACCA  
CTGCTATATGCAATAAATAAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAAATGTGTGGCACGTGCACATACATGTGCATATGT  
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AAAATAGTCACTGACACACATTATATACAAAACCTTTTATATAAAAAATT  
AAACTATTTTCAATGAAATTCATGTTTCACACTCTATTCTGAGAATTGCA  
AACTGAATCATAAATAGGTCTACTAACGAAATCATGGTTAAGGCAGTATT  
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>Sequence 1109

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AAGGCCTTCAGATTTGAGGCACAAAAAAGGGCAAAAAAGAAAAAA  
AAGAAAAAACAACCTTCTACACATTTCTTCTTTTATCTGCAATATGAGA  
AGGAATCCTTTCTAACTCTAATAACATATTAACAAGAATTAAGAACACGA  
TTGTGCGGGAACCTCAGATGTTGGCAAAGCTTANAAATAAAAAACAAGGG  
CTGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGG  
CAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAG  
TGAGACCCCTATCCCTATCTCTCCAAAAATTTTTAAAAATAGCTGGGCAC  
AGTGGTGTGTGCCTGTAGCCCCAGCTACTTAGGAGGCTAAAATGGGAGGA  
TCCCTTGAGTCCAAGAATTTGAGAATGGCGTGAGCTATGATCAAACTTCA  
ATTACAGCCCGGGGTGAACGAAGCCAGGGGTTTTTAAAAAAGG  
GAAAAANNAAAAAAGGGGGAGGTTCCCTTGGGCCCCGGGGGGCCGGGG  
GCCCCGGGTTTTTTCGAAAAGAGGGGGGGCCGCGGAAAAATTTTTTCC  
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>Sequence 1110

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TCTCTAGAGCAGGGGCGAATGCTCCCAAGTCTCTTTGCTAAAGCATAGCA  
AAAATCACCTTTGCTGCTCCAGTTCCCAATAAGTTCCTCATCTCTGTTGG  
AGACCACCTCAACCTGGACTTCATTGTCCATATCAAGATCGGCATTTTGG  
TCAAAGCCATTAGCAAGTCTCTAGGAAGTTGCAAACTTTCCACATTTT  
CCTGTCTTCTCTGCAACCCTCCAAACTATTTCAACCTCTCCCTGTTACCT  
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Table 2

CTCTACCGGT

&gt;Sequence 1111

GGTACTTTTTATGTTTTAATTTTTGTAGAGAATGGCTCTTGCTATGTT  
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TCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACTCCCAGCC  
TGTAGCCTATTTTTATAAATGAAGTTTTATTGGAACATAGCCATGCCTGG  
TCATTTACATACGTCTATGGCTTCGTATGCAATATAGCAACAGAATATAT  
TAAACATTTACTACCTGGCCCTTTGCAGAAAATGTTTGACAGCTCCTGCT  
GTATAAACATAAAAATCTGCCAAAAAATGCTGATATTACCCACATGGAGA  
AACACTGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACTATC  
AGAGAAATACACTCTGATTTTTTTTTCTATTCCCTTTCTTTTATTTTCT  
TTTTTGAGACAAGGTCTTGCTCCGTTGCCCAAGCTGGAATATGATGGTGC  
CATCATAGCTCACTATAACCTCCGAATCCTGGGCTCAAGTGATCCTCTTG  
CCTCAACCTNCTGAGTAGCTTGGACTATGGGCGTGTGCCGCCGACCTGG  
CTAATTTTTGGGATTTTTAAAAAAGCGGGGGTTTTCCCCACCGTT  
TTGGGTCCAAAACTTGTTGGTCTTTGGAAAAACCTTCTTTTGTAACC  
CCTTTCCGGTGGGAAATACCCTTGGGGGGCCCCCAACCCCTTTTTTT

&gt;Sequence 1112

CCGCCGCTCGAAAGCCCTATACCTTAGCGTTTTTAACCTATATNCTGTGC  
TTNNNNNNNCTNNNGGNAAGTGGGGGAATGAGGAGTGGGGGGGAGTGC  
TACGCGCATGTGTCTCAATCCCCCTTACGGCCCCGGCAGACCTTGGC  
TTGACTGTGGTCTANAGCACAAGAATATGCTAGGCTGCACTCTGCTAATC  
AGATGTGTGAATGGTCTGTGGNGTGTATTGAATGGGAAGCTTTGCCCCG  
GNGAACCAAAGCTCTCATGGATGATGTGGTGAAAGCCACTTCTAGGGGCT  
GATCACCATCATAGGTGGTGGAGACACTGCCA

&gt;Sequence 1113

GGTACTTTTTCTTTTTCTTTTTTTTTTTTTTGAGACAGAGTCTCTCTC  
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CACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG  
GATTACAGGCAGGCACCACCACACCCGGCTAATTTTGATTTTTAGTAGA  
AACGGGGTTTTCTCCATGTTGGTCACTCTGGTTTCGAACTCCCAGCGTCAG  
GTCATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC  
CACCGCGCCCAGCCACTTCTGTATTTTTAAAAAAGTGGTAAGATTTGAGT  
ATTATACTGGGATAGAAGTGAAGTTGGGGGCTTAATTTGATCTATCAGCT  
TATTGAAAAACAAGGACCTTTTAAGAAATGGTTTTGTTAGGTTGAAAAAGT  
GAGTTTTAATTCGTCAATTAATTAGCCAGGATGTTGATTTTTTTTGGTGA  
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&gt;Sequence 1114

GGTACCACATTGACCCAAGGACCTCTAGCTGTGTTTGGTGAGGCAGGTCT  
TTGTCAATTTAAGTAATCCTGTGATGGTGTACCAATCTTGTAACCTCAC  
GACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCCTTAATGGGCAG  
TTTTTTTATATATACGTTCCATTTTCAGACAGGTGGTGTCTTGAGTTG  
AATTTGCAAGTTCAGTGAAACATGGATCTTTTTTTATTTAACTCCCTTT  
TCTTCTCTAAGGTGCTTAATTTCCATGCTTGACATCGT

&gt;Sequence 1115

TGTACAGAAGGGTTTCACCATGTTACCCACACTGGTCTCAAACCTCCTGGT  
CTCAAGTGATCCATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACT  
TGAGCCACCGCACCCCTGTCCCATCACTTTATATTTTCAAGAAGGTGGTGA  
GGGTGTGTTGGTGCCTGNGGTCCTTAGCTGAAGAAAAGGGAATTTTCT  
ATCTCTGGTAATGCTTTA

&gt;Sequence 1116

TGTACCATCCCATGGACACAAGTTTCCAGGCAGCAGCCTCCAAGAATTTT  
GTTAGAGATGTCCCATCACTTATGGCCCTACACTGTTTACATCTGGACTC  
TGGATTGCAAGTGTAAAGGAAGAAAGTGAAAATGAAAGAGAAAGTGGAACA  
AATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGT  
TAAGTGAAAAATGCTGTTGCCATGGGAGT

Table 2

## &gt;Sequence 1117

AAAAAAAACAAAATATTTTTTAAAGCGTGAAAAAAAAAAAAAGAAGGGGGGG  
GAAATCTAAACTTGGGAAAAAAGGGGGCCTTAAAAAAAAAAAAAAAAAAAA  
TTTTAAAAACAAAAAAAAAAAAAGAGCGCCTTTTTTAAAAAAAAAAAAAAAA  
GCCCCCGGGGGCGCGCCAAAAAACCCCTTTTTTAAAAAGGGTTAAAAA  
AACACCCCCCTCCCAAAATTTAAAAAGGGGGCCCGGGAAAAAAAAGGA  
AAAGGGGGTGGCAAAAAAAAAAATCCCCCCCCCAATTAAAAAACACAAA  
TTGGGGGGAAAAAAAACGGGGTTAAAAAAAAGGGGGAAANTTC  
CAAAAGTAAAGAGGGGAAAAAAAAGGGGTGTTTTTGGGGGAAAAAAA  
AAGAGGCCCCCAAAAAATTTGTAAAAACAAAAAGGGCAACTTCAAGGGG  
GTGAAAAAAAAAAAAAAAAAATCCCCCCCCAAAAAAAAGGGGGG  
GGGGGGGAAATTTTTTCTTATTTGGAAGAAAGAAAAAAAAGGGGGG  
GGGCCCCCGGGAGTTTTTTTAAAAAAAAGGGGGGGGGGGG  
GGGTTTTTTTTTTTTTCCCCCCCCCCCCCCCCCAACAATAAAAAGAGAG

## &gt;Sequence 1118

TGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAAAAGTTGGCCCG  
CCCCAGGGAATAAATTTTGACTGCTCTAAACAACCACAGACCAAGGGCCA  
AATCTGGCCCTCTGACTGTATAAATTAAGTTTACTGGAATAAAACCAGG  
TCCATTGATTATCCATTGTCTACATACGCTTTTAGGCTACGATGGCACC  
ACTGTGTCACTACAAAAGAGGTTATCTAGACAAAAAGCCTAAAAATATTAC  
CGTTTGCCCTTTTATGGAAAAAGTTTGCCATTCCCTAGTCTAAGGTTTAG  
ATTCTGAGCTTATCATGTTATCCTACCCCCCCCCCGCT

## &gt;Sequence 1119

ACAATATGGAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGT  
TGCCCCATGTAAATAGTTTAAACACTTGTAGAAGTATTAGAAGAGATCCT  
TAGGGAATGATGCAAGTGGCATTGAGCTATTCATTTAGAGAAAGTTTA  
GAAACATGCAGTCTANNAGGAAGAGATAGAGGCAATAGGAAAAAATATA  
TTAAGATTAAACAGCTGTTTATCCCCGACTTGCTTAACTTCNGATGTNGTG  
TCAGAAAAGCAACAGTATGGGCTAGAACAAAGTGGAATGGCGTTTAAAG  
AAGTAGGAAAAGGGCAAGTCTAAAGAAATTTGAACTNAGATACTAAACT  
TGTGTTGCNAGTGATTAATCATAAGCTTATTCTTCATGAAAAGTATATAT  
TTCTTTCACACTACNCTAAGACAGTATTATACATTTTGCTTTTTTATCTG  
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ANTGAACTAGAACTCTATATTTAGGGAGTTAGCAAAAAAAAAAAAAAAT  
ACCTTGGTGGGACCAACCTTGGGGAGAAATTAATTTCCCACTTGGCTGGCG  
GGTCTTTTTTGATGCAACCCTGGGTCCCAACCATTGGGTGGGAAGCAAA  
GGGGTGGGTTAAACTTGGCTTTCCTTGGGCTGGAAAAAAAATTTTTT  
TCCCGTTTCCCGGCCTTTATTTTTTATTTTTTCCCCACCAAAAAAAT  
TTTTTCTTTTAAACCCCCCCCCGGGTGGGAAACAGAGGGGGT

## &gt;Sequence 1120

GGTACACACATCTTTTTGAGATCCTACCTTCAGTTCTTTTGAGTATATAG  
CCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTTAATTTATTG  
AGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACC  
AAGAGTGCACAAGGGTTCCGAGGTTCCACATCCTCCCCAACACTTGTTA  
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TCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGAAAAAATGTC  
TATTCAAGTCCTTTGACTATTTTAAAAATTGGGTATTAGAGTTATCGTT  
GGTGGTGACTTGTAGGAGTTTCTTTCTATATTCTGGATATTAATCCCCCTA  
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CCTTTTGGTGAATGGGGTCTCTGATGGATAGAAGTTTTTAGGTTTGAAT  
AAGCTAAATTACTGGTTTTTACTTTTGGGGGCTGGGCTTTTGGGGCCATA  
TTCAAGAAATCCTTGCCACAACCACGTAATAAGGTACCTGCCCGGCCGGC  
GCTTCAAAGGCGAATTCAAGACACTTGGGCCCCGTTTTTTGAATCCAGC  
TCGGTCCAAACATGGCGATATAATGGGATAACATGGTACAGTGTTAAATC

## &gt;Sequence 1121

Table 2

CCCTTAGCGTGGTCGCTTTCGAGGTACTTTNTTTTTTTTTTTTTTTT  
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CCTGACCTCGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCGTGAGCCACCGTGCCGGGCTGAAAAATAACCCTTTAGATATCTACAG  
CTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAGTCATTGGCAT  
TTAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTAAATA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAG  
AATTTTATTCTGTTCTCAATATGTTGCTGCTCTTCTTATCAAATACTATA  
ATAAACTATATGACTATTATATAGATTTTCAGGAGCTAAAAAAGCCTTA  
TATTTTCAAATTAAGAACAATATTAATTTTGCAAAATACAATGAGCATT  
ACTGAAGTATAAAGGTAATTTTTGGATTAAAAATATATGGTCATTTAGAT  
ACCGGCCTTAAAGAATAGAAATCTTAATGATTTCTTTCTGGCTACAGTG  
AGCTTAAAAAATACCACCCCAAAATTTAATAAATATGTAGCACTTCAAGAA  
ATTTTTTAACAACCTTCATAATGTGAAATTGAGCCATTTATTTAGAAGTTT  
GAATTTGAAATAACTGCTGGCATTCTTTTGGAAAGGGACCTTAGGGAGT  
TCCTTATCCGACACGGAT

>Sequence 1122

CCCTTCGGTTTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCG  
GAGCTCGACCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAG  
TTTAAAGAAGGAAGCTTATCTAAGACGTGGAATGAAAAGTACC

>Sequence 1123

ACCTTTTATCCCTCAAAGGACCCTTCTTGGGTTTTGAATGGAAGCCTTTA  
TTCCGGTTAAGATGTTTTCTTCTATTTTGCCACTTCCATCTTTTTTGTG  
GCCCTCGATCCTATTTTTCCCTGACTCCATGCTTGGTTGGCCCTTATAAA  
ACTTGTGCCCAAAAGATTGTGGATTAGACTTTCCGAGGACTTACCTGTCC  
TAGGGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAAT  
GACACATGACATACATGGCATAACACATTAAAGCAGTTGATCATATGTCTGA  
CTGGGTTCCAGTTTCTTGGGAATGTTGGTCCCCTTGTTTCAGGCTTGCATA  
TTTTAACTAAAAATTTCACTCTATTGTTTTTAGTAACTTCATTTATAGT  
CCTCCATAACAAGTTAGAAGGATGTATCTGCTACCATTATTCCTATAAT  
TTTAAAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCA  
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GAGCCCAAGCTTTATCTTAACCATGTATGGTACCTCGGCCGGAACCCCC  
TAAGGG

>Sequence 1124

CCCTTTCGATCGGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGT  
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TGACAATGAAGTCTTTGGTAGTGATTTGTGATTTTGTTTTTCTTGATT  
AGTAACCAACAGCACAGCCACCAAGAAA

>Sequence 1125

GGTACAGAAAAAGACACATTTAGATAAACTGAAGCAGATTAAAGTGACTT  
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CTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACA  
GAAACAAGTGATGTCAGTAGCCAACATACATCCATGTCAGCCTATATATG  
ACTTACTAGGAGGGCTTAGTTTTTTAAAGAGATGAAAAATAAGAGAAG  
GTCTAGTATTTTCTCCACATTCCAACAGATCATTTTATGTGCCCCCTT  
TGGGTGAGCACATTCCATGTTGTAGACCATTGATCATAGTAGTCAGAGCA  
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AATAATTACCATGAAAAAAAAAAAAAAAAAAGT

>Sequence 1126

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ACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTA  
AATACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTA  
GGGATCCACCGTGTTCATAAAAGTGTCTTACACTCATGTTTGGCTTTCA  
AGAAGTGATATGCCTACTAAAGCTGTTATTTTGAGACTATCCCGGTACC

Table 2

## &gt;Sequence 1127

CCCTTTTCGAGCGGCCGTTTCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTT  
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AAATATACAGTCCATCACCTTGGCTCAGTGCATGTCACCAAAAAATCTCC  
AGGGATTTTCATAGTCTCGGTGGTGTGGCTGGCCCAGGACTATCCATGCAG  
GGAGCCCTGCACCTCTGACAGTCGGCTGCAGCTGGGGGTGCCCATCTTTT  
GTGCTCTGTGGTACTCCTACACACATAAAATTCAGGAAATGACTAGATGAG  
CCTGAGTGGCTTTATCATTATTGTGCAAATACAGTTTCTATACCCACAAA  
CCCAAAATTAAATTATTATAGGGACTAATGGCTGTCAGGTGGGTGTGGGAG  
GAAAAAATTCACAAGCTTGTGTACCAATTACCTTACCATGAATTTTATG  
TACCCTTGC GCGCTACCACACTTAGGGCTATTTTCTGTACACTGCGGGT  
CCGTATCTTAGGGAATCCCCTTGGGTCCCACATCATGGATGACACCTGG  
TAATTAAGTGGTTCCCTCTCATAAAATAAAATTCGGTTGTACATTCAACAC  
AAAATTACGTACCGTACTGCAAAATATTATATTCTTCGGCGTGCCACTCA  
GATGATCTTACACACATCTATTGTCTACGCCTTATTGTTTCTTTACAATT  
ATACAACCTTATTCGGATAACTTCTCTAACTAACTTTACACCCCTGCGTT  
AGGGCGCTTATCTATTCTCCATCATTCTCAACCGTTT

## &gt;Sequence 1128

CCCTTTCTTTTTTGGCGCCCGGGCAGGTACTATCGATTGGGTGCGGGGTGA  
TCTATTATCATTGAGTAGGGAACTTACTAGGTTAAATAGAGAGTATATA  
GAATGTATTTGGTTATAGATATGTGAAGGAAAAGGCATAATTATATGGTC  
ATCCATGCTGGGGAATATTTTGTAGGTATGTTTTGTTGAGAGAAATCGAT  
CATATTGGATCAATAGAATTAGACAAATATCTTGAGCATCAAGAGACCTG  
GAAACATGGGAATGATAAAGAGAGAAAAAACTGCAGTTTCGACGTTCTTGA  
GGCCACAAGAGAGATGGAGGAATGAGGGTCGTGTATAGGAAAGAGAAATA  
AGAAATTGTGTGGGAGAGAAAGATGGTTTATTGTGATGGTCAAAATACCG  
AGCATGGGAGAGCCAATGGACAACATTTGAAAAATGAATCAAATTGATAA  
AGTACCTTCGGGCCGCACCACCCTTAGGGCCAAT

## &gt;Sequence 1129

ACAGTGGCGCAATCTTGGCTAGTGTAATTCAGTCTTTTGAATAAATGGAA  
AAAAATAAATTGTATGTTATTTTATACAGAAAAAAAGGCCTTAATATCAT  
AAGGTTTTTTTATAGCCCTCAAACTGATTTTTAAATGGAGGTAGGCAAC  
TGAGAAAAATAAGCATTTAAATTAGTTTTACCCCAAGCCCCCAAAATT  
TTGCTTACAAAATTAGGGTACC

## &gt;Sequence 1130

ACTTNTTTTTTTTTTTTTTATTTTTCTTTTTTATTATTTTTTTTTTTT  
TTATTTTTTTTATTTTTTNNNAANNTTTTATTTTTTTTATNNNTATAAA  
AAATTATATACNAGGGGGGATAAAAAAAATAATAAAGGGGGGGTGGAAA  
AAATAAAAAAAAGGGGGGGCCAATATAGCGGATTGGGGAGAGGGAAA  
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GGTTTAACACAAAAAAGAATAAAAAAACGGTTGGGAGGGTTAGGGGG  
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AAAAATAGGGGGGGGGAAAAATAAAAAAGAGGAAACCGGGGGGGGCAAAA  
GAGGGGGGACACTCCCAATATATGGTGGGGGGGGAAAAATGGGGGGGAAT  
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CAGGCGGAGGGAAAGAGGAGTTAGATAAAGAGGAGGTATATTAATGTTT  
AAAAAAGAGGAAAAAGAGAAAAAGATTGGAAAGGGGGAGGGGAGTATG  
AGTAAAAAGAGGAGGGGAGAAAGGAGATATAAAAAAGGGGTGAGAACCG  
AAAAAAGGGGGAAAAAAGAGGGAGAAAGAGGGGAATAAAT

## &gt;Sequence 1131

ACCCAGAGGGAGAGGCTAGCAGTATTTTTAAATTGGTTTCTAAATTTTTT  
ATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAATCTGAAAA  
CCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAAATGACAAATGTTTTT

Table 2

TTTATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTAT  
CTGAAATAATATTTTAAACCCTATCATAAAATCTCTGCCTGGTAGAACAGC  
TGACTGTGGAAGGGTAAATGCGAGAGAACAGTCATTGGATCTCCCTTCT  
CTACTTTGTTACTGAAATCTTGAACCTGTAGAACATTACTTATCACTGTG  
TTCCTTTCTAATGGGAAAAATAATAAAACACTTGCAGAGTATTNTTTAA  
AAGTTTTTAGCTTTAAAAAACCCTGTGCCTTACACAATGTGTATA  
TTGAGTTGATACTGATTATGATAATTAGATGGTATTATACAATCATTAT  
TCAGCAAACATTCACTTACTGAGCACCTACTAATGTCCAAGTACCTTCGG  
NCGCGACACGCTTAGGG

>Sequence 1132

ACATCACATGGTGAAAGCAGGAGCAAGAGGGATAGAGGTGCCATACACTT  
TTAAACAATCCGATCTCACAAGAGCTCACTCACTATTGCAAAGATAACTC  
CAAGCCGTGAGTGATTGGCTCCCATGACCTGAACACCTCCCACCAGGTCC  
TACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGGGATA  
AATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAAATCTCATGTC  
TTCTCACATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTC  
TTAACTCATTCCGACTNTAACTCANAAATTCAAAGTTGGCCAGATGCAGT  
GGCTCACACCTATAATCCCAGCATTTTGGGAAGGCCAAGGTGGGTGGATT  
CTTGAGCCAGGAGTTTGAGACCAGCCTGGGTAATGTGGCAAAACTGCAT  
CTCCACANNNNNAAANNNNAAAAAAGTACCTTGGGCGCGAACACG  
CTAAGGG

>Sequence 1133

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TTTAATTAGCCAGGCTTGGTGGCCACATCTGTAGTCCACCTACTCAGGA  
AGCTGAGGTGAGAGGATCACTTGAGCCCAGAAGTTCAAAGGGGCAGTGAT  
CACTCCATTGCACTCCAGCCTGNGTAACAGAGTGAGACCCTGTCTCGCCA  
AAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAGACCAAAGAAGTAACTG  
ATATTATTGAAAATATTTGATAGCAATCGCAATTATTTGGATAACTATTT  
TCACATATGTAAGCAAACCAATAGGGTCTCAAAGTTTCAGACCAAATG  
ATTATGTTCTCTACTTCAACCTTAAAAAAGTTAAAGAATTCTACAAT  
TACAAAAAGAACAGTTATTCTATAGTTACAAAAAGACTTGAAAACCTTCA  
CCTGAATGCATCTCTTTGTTACAAAACCATTAAGGAGGTAGGGGGGAAC  
TTCATGATTCAATGCTGCCTGCTTTTTTAACCCAGGAAATCCTTTAC  
ACCCCTTCTTGCTCTGGCCAGCAAGAACCTGAGGTGTACCTGCCC GCCG  
CCCGTCA

>Sequence 1134

ACTTNTTTTTTTTTTTTTTTGTTTAGGAGCCTCTGGTTACGTTTTCTTG  
TATATTTACTTTCTCATCCTTTCTTTTTCTTACGCTTCCATCTTTGACA  
TCCTTATCTATTCTAGTGCCAACCCCTCTCTTTAAAAAGTCNAGTAGTGT  
NNAATATAGTTGGCTCNTTTTTATTTANNAAAAAATTTTAAAGATTGGGAT  
ATTTGCTTTACTTTATCATGTTACCGAGGGGCTTTATTTATANTNNGTGT  
ATTACANNAATATATTTGTTAACCTACCCTAGCAAATATTTNTATGGGTA  
ATAACTTTTCGCTATTNTAATATAAAATCCCTGGGTTTTTTAAAAATTCT  
TGAAAATGGCTCCATTTTAAAGTAATAAGGGAGACAGGGGTGAAAATTGG  
TNTCCAAGTTTTACCTACCTACAACCAAGGAAATAAGGGAAGCTCTAGA  
TTCCTTGGTCTTTTTTTTCCAAAAAAGAAAAATTTTTTAAAAACCAAGGC  
TTATTTGGAGGTATAGGTTTGATTATAAGCCTATATTTTGGACATGGTCC  
CTTGGGCCCCGGGACCACCGCTTAGGGGCGAAATTCACACACACTTGGCC  
GGCGCGTTACTTAGTGGATTCCCGAGCCTCGGTACCCAAGCCTGGGCGTA  
AATAATGGGCAATAAGCTGGTTTCTGGGGAGAAAAATGGTTATCCCGCTC  
CCAATTCCACCACACATACCAACCCGGAAGCCTTAAGATGTAAAGCCTC  
GGGGTGCCTCAAGGACGAGCCTAACCTCCCATTAATTGTGTTGCGCTTAC  
TTGCGCCGTTTCCCAATTGAAAACCTTTCTGGCCAATTGATATATGGA  
AATGCCACGCGCGGGGGAAGAGCGGTTGTCGTTTGGGCGCTTTTCCCT  
CCTCCCTTCACTGACTCCCTTTCCCTGGCGTTTGGTGGTGGGAGGGGTAA  
AT

Table 2

## &gt;Sequence 1135

GGTACAGAGGAAATGGGACTTTGCAATTATTTTTCTAAGTGGTCTGAA  
CTTGGTCTCACTACCCACATCANCCTGGAATGGGTTACCAGGCCTCAAAG  
GACTGCCCCACGGGCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTC  
TTATCTGGGAGGTCTTTACAGATGCCACTGTTGAAGGCCCGGAAGCTGA  
AGAGAGTGAGCTCCATCCTCAAGTAGTCCTTTATGCTCCTTTGGAACAAG  
CTTTGCTGTTTTGGGCCGGCATTGTGTAATTGGGCCTGGAGTGTAAGGTC  
TTTANAAAGAAGGGATGGGTCTTTAGGTAATGAAATAGGTGTTGATGGT  
GTTATGGGTGATGATGGAAGTGAAGTGCAGGTGTATAAAGTCTTCATCCTT  
CCCAACTGGGTGGTATCTAAAAATCGGCTTGGGCTTCACATTTATAAGGGA  
GAAGGGTCGGGCCAGGTACCTAAAGGGAAAGGAGGGACCTTCTTCCTTAA  
GGGGGAGGTCCCTGGCCACTGGCAAAACGGGAGGGGGGACAACACCTGGT  
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ACTCTGGCCGGGGTGGTTCGTTTTTAATAGGGCTAAATCTTATCACATTG  
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## &gt;Sequence 1136

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AAAAATGGGGCATTGTGTTGATTTATTTATTTCCGTCTCTAATTAGTTAC  
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CCTCTCCCCGACCTTTTTTCTGCCAGTGTAAGGTGTATTC

## &gt;Sequence 1137

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## &gt;Sequence 1138

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G

## &gt;Sequence 1139

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Table 2

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>Sequence 1140

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>Sequence 1141

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>Sequence 1142

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>Sequence 1143

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Table 2

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>Sequence 1144

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>Sequence 1145

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>Sequence 1146

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>Sequence 1147

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>Sequence 1148

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>Sequence 1149

Table 2

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>Sequence 1150

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>Sequence 1151

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>Sequence 1152

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Table 2

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>Sequence 1154  
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Table 2

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>Sequence 1159

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>Sequence 1160

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AAACAGTTAATACACATTTTGTATGTTGCATGTATTATATAATGTACCTG  
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>Sequence 1161

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>Sequence 1162

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GTGGGCAAAGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGG  
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CCGCTCAAAGGG

>Sequence 1163

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TTAGCATGCAGAAGATTCTGGCCTGAACCAGTTACTACTACAGAGGCTGC  
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>Sequence 1164

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>Sequence 1165

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>Sequence 1166

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CCGCACAAGTTGGCAGTAGGTATCCCCAACCTAATTTATCTTGGTAAATT  
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Table 2

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>Sequence 1167

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>Sequence 1168

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ACTTGTCTATGAAGAGAAAAAGTAGAACGCGGGGAAAAACAAGAAGACGCC  
CTTGAACAAAGAATACCTGGGACAAGGAAAAAGAAGCCAGGAGGCCAAG  
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AAT

>Sequence 1169

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>Sequence 1170

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CACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAAT  
GCTTGGGAAATAGTCATAATTACCCACATATAGTAATTAATAGATGGTAA  
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GATGTTCCCTGGCCGGGAGCGTTGGCTTTCGCCTGTAATCCCAACACTTT

Table 2

GGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTTCGAGACCAGCCCAGC  
CAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACG  
CCTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGGATCGCTTG  
AACCCATGAAGTGGAGACTGCAGTGAGCCGATATCGCACCACAACGCTTC  
AGCCTGGTCGACAGAGTGAGACTTCATTTCAAGAAAAAATAAAATTAAG  
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AAG

>Sequence 1171

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ATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATGTTCTCT  
GTAAACTCTTCAAGACTTCAATGAGAAGTTTGTATATAAGAATTATCTT  
CTCATACCTTTCCCTTGTGAAGAGCGTATTCTGTTTTCTATCAGTTCGAC  
ATGAAGTCCACATCATATGCTGTTCTTTCTAGTTACATGATGTGCCTT

>Sequence 1172

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TCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCA  
TGTGGGCAAAGGATGGCCACGAGAAAGGCAGGCCAGATTCCAAATCTG  
GCTTGACCGTCTAAGAGGCTGAGACTTAACCTCTCTGAGCCTTAGCTGTT  
TCATCTAGAAAGAGGACCTCTGACAGCTGCCTACTATGGTTGTTATGAG  
GATAT

>Sequence 1173

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GGCTCTGTCTTCATGCTAGAAACCAAAGTCTCTACAGCTTCTGCTAA  
ATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACC

>Sequence 1174

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CAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAAAGACAGTGAAAATT  
TTGGGTTACTGTAGATGTCCACAGTCTGGCTTGGAATTTAGTTCTGTGA  
CTAAAGGAGGCTTACAGTTGCTCCAATTTTGGTTCTGTGGGGTACCTGCC  
CGGGCAGCCGCTCAAGGG

>Sequence 1175

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AAGAACTGTCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAAAG  
CGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAA  
ATGCCAATGTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATTC  
CCACAGGAAGAGTTGCCCGTTAACTGTCTCAGGTGCCAGACCTCCAGA  
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TGTTGTTAACACCACC

>Sequence 1176

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GTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAGATTTGCCG  
AGTTCCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACACAA  
CTTAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTA  
CTTCTGAGCCTTATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTTACACT  
TTAGAGAGGTTGATTAACGAGTACC

>Sequence 1177

GGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGCCTGCAACTTATT  
CTTTAATAGTTTCAGAAATATTAACAATTGGGTAATTTGGGTGAAAGGTAT  
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TTAAAATGAAAAGTTAAAAGTTTAAAACATAACAGAATAGAACATAACC  
TATTAAATAAATCTGAGTCCAGGCATGACACAGTGGTTTCATGCCTGTAAT  
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G

Table 2

&gt;Sequence 1178

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CTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAAATTTATA  
GAGTATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGAT  
GTTTATTTGTTTCATTAGCACTCTGAGTACC

&gt;Sequence 1179

GGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTT  
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AGGTGACTTTTTTGGAAAAACAATTTGGGAGTTTAAAAAGGGTGTAATAAT  
ATTCTTGCGGCGATTTTTGTAAAAATACAGTTTTATGTTTTCTTTTTT  
GCGACACCCAATCTTTAAACTCTTGAACAGGTTTTTCCCTTTTTTTTT  
ACAAACCCTGGTTAAAAAACCAATTTTTTTTTT

&gt;Sequence 1180

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GGGGGGGGAACCTGGACAGGATAAGGGGGAAGAATTTTTTTTTTTTTTCCC  
CCAAAAAATGGTTTGGGGGCGCTGAAATTTAAAAAAAATTTCAACCGG  
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AAAGGGACCGGCTTAAAAAGGGG

&gt;Sequence 1181

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AGGTGGAGAAGCAAGCCTTGTTGGGTATTTAGGGTAGCAGTAGTCCAGGCA  
AGGGGAACAACCTAGTGCAAAGGCTCTAGGAGGCAATGTGTTGAAGTGT  
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAAGATGAGCAAAGGGG  
CAAAGTGGTAGAAGGTGGATCAAAGAGGTAATGAGGCCATTGTGGAGGC  
CCATATGGACTATTGGN

&gt;Sequence 1182

GGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCACAAGGTGAAGTCC  
CACAGTAGGCTATCTGCAAGCTGAGGAGCAGGAACCGCCAGTCAAACCTCA  
AAAGGATAAAAGGGNNGGAAGCCGACAGGGCAGCCTTCAGTCTGTGGCTG  
AAGGCCCTAGAGCCCCTGGCGAACCACTGGTGTAATCCAAGAGTCCAAA  
AGCTGAAGAAGCTGGAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACG  
GGAGAAAGATGGCCGGAAGACTCAGCCAGTCTAGCATTTCACATTCCCC  
CGCGTACCTGCCCCGGGCGGC

&gt;Sequence 1183

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CATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGGCAAGGGT  
AAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAA  
CTCTTCCCTGTTTTAGCTAGTCTCAATTTGTCTGATGTCTGAACCCAC  
TGCCAGAGTTGAGTCTTGCTGCTGAGTCATGTCCAGACTCCTACCTCAG  
AAGTATGAAGCATAACTGGTGTTACAAACACCATCTTCAGAACAGTGATT  
AACCTTACGCT

&gt;Sequence 1184

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TTCTGATTGGAAGTAGTGATTCTTAAATGATTCCAAAGTCATCTGTAAT  
TCTTCTGTTTTTGTGTTTCTGTCTTTTCTTCATTTTGGCTTTGGGTGG  
GGGGAGGGGCAGGTGACACANAGGATTTTTTTTTTTTTTTTTTAAATTTT  
GGAATCTTTTCCAATAACCAGCTAAAGATTTGCACTGAAATACAACCTGT  
ATGCCTTTTGCAAT

&gt;Sequence 1185

ACTCCTGTATTTGTCTTATGAAATGACTATCTGCCTTCTCGTATCTAGT

Table 2

AAGATTGGCTGGCTCAACTTCTTCTGTCAAATTATATGGTTATTTTTTA  
TATTACCACATCAGCATTATATTAAGTGTTTTAATAGTTGAATGTAT  
TTTGCCAACACTAGTATAGACTCAAATTTGCTATTTAATTTTTTAAATA  
CAATTTATTTTGTAAATCCTTTAAAAAATATTTGGTTAGTTTTGGATTAG  
AAATGATTTATGTTAGCCATGTGTTGAAGATGAAATTGGCATCAGTGTA  
ACGGTGCTGATTG

>Sequence 1186

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ATACAATGAACTCCTCAGAAAATAAGCTCTGTAAATCTCAGACTGCCTG  
TTTATCATATGCTAGAGTAACTTACATTCCTTCTTGTAGAGAAAAAT  
GATGGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGC  
CAACTACAAGAGAAAATACAGTTGGCCCTGAACAACACAGATTTGAACTA  
CATGAGTCCGTGTACC

>Sequence 1187

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AGATGGCGTGGGGTTCCTGGGCCTGTCGGAAAGTGGCATTCTTTACTAAC  
CACAGGTCAGGAACCTGCACAGGAAGTGTGTAGACAAGGTATGAGGCCA  
GTTTTCCCAAGGAACCTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTA  
AAGGAAGCACACCACTTCCCATCAAAGTCTGGTAAAAACAAGTCTCTCT  
CTAATTGTGCTGTTGCAAAAGAAAACAGATTCTTATTGCACTTGTGCA  
AATG

>Sequence 1188

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ACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTTTGTTCAA  
TGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAA  
TTATGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAG  
TTGAAGTATAAATATATATTTTTGCAAGAATAAATGCTACAGTAACTGAT  
TATGACAGCTAATTCTGTGTACC

>Sequence 1189

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AAATATTTATTATCCCTTTATAGGAAAAGTTTGTTAATTCCTACAATAGA  
CAACGAATATCAGAATCTATCATACAGCAATGGTGAACACCTATTCC  
AGTTGGGGTGTGTGTGTTTGTGTGTGTGTATGTGGTGGGTTATAGT  
GTNNANTGTNTTNTTACTGTGACCATGTNNAAAAAATTAAAAACAATAA  
ATTAATGACTGTTTAAGTGCTTAAAACCATGCCTGGAACATAGCAAGGTC  
TGAATAAATGTTAGCT

>Sequence 1190

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AAAATGATAGGGCTTTTCTTTGAATTAGTCACCACAGGTGNGAAAGACA  
GAATGACTAATCCATCTGATTAAAGATAGACCTGGAGAAAATCAATGACC  
TTATTTACACAGATGACGACTGGTACTGGTCCAAGGCTACTAACGATGGA  
TACGTGAGCAAGGCCTGAAGACTTATGACAGAGGGAGGAGGAGGGATGCC  
TAGCCGGGCGTNCGGTGGGAAGGGCAAGAGGTAAGAGACCCGCGAGTGCG  
GGGGAGATGGG

>Sequence 1191

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GATACATGAGGACTTACCTAAAAATGTCTGAGAACTGACTTACGCTTGATT  
ACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATG  
TATAAAAATAATCTTAAAAAATAAATATGATGGTATAGTAATAAAGTAA  
AAATAAATATGGT

>Sequence 1192

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AAAACTACTGTCGTCTCATCAAAAAGATTCAGAAGCCAATTTAAAGAGT  
CTCACACTGGACACAAAAATAATTTGAGCTTCAAATAAACTGCAAGGGA  
TTAAAACACATAAAATTTGTGTTAAAAATCCACAAGTTCATAATGATACTAAA  
AAAAAAAATCTTGTTGGTTTCTCTAGAGGCTACTAGAAAATCAGCTCA

Table 2

TTATTTCTGATATTGGTTTAAATAGAAGAAAGAAAACCAAGCATC  
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TTTAATTCCAAAATACATTCTCTCAACCCTATGCCCTCATACTAGTAACT  
TGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAACAGAAGGGGAAATT  
GGGGGAGCAGAAAAGGGAGAAAAAGAAGAAAAGGGAACCTTCTAGTTTCC  
TAATAAAAAAGCTAGAGAATTCCATTCTGAAAATTAAAGATATT  
>Sequence 1194  
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GAGGCTGCTGTTATCCACAATAGTAATACCAATAGAATAAATGATGAGTA  
TGTATACACAGACAAAAGCACAGGACGTATTAATAGGCGGACCCACAAAA  
GCACAGCATAAGCCAACTAGTGTAGCGCACCGGTAGTGTGGTGGTGCGG  
GATCTAAGATGTGAACGATGAAAATAAAGACAGCGCATCCCGGACGACCA  
CC  
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AAAGCCTTTTGGACAGAACCAATTTTTGGTTTAAACTTTGTTTTCTTT  
AAAAGCTTACAGGGTTTGGCTTAATCTTCCTTCCCTTTTTCAAAAAACG  
GGGGCCCGAGGGTTGGCCCCCTTGGGGGAAGGGTAAAGGGTA  
>Sequence 1196  
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TCAGTGATTTTTTGGCATGAGTGTATGGAAGAGTAAACAAAATTAAACA  
CAGTGAACCTCTGAGTCATTTGCTACCCGAGTTAGTCATTTCTTTTGAAG  
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GTATTT  
>Sequence 1197  
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ACACTTGTACC  
>Sequence 1198  
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GAGACCGCTGATTAATCTTGCACTANGAAAAACAGAACAATACAAACAA  
GTAACAAAAACAAGACACTCACATACAATGNTTTTAAATGCTTGAAAAGT  
>Sequence 1199  
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TAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATNTCTGCTGTGTNC  
TTAGGATGTGCAGNAAAAAATATAGACCTAACAGGTTATGTTATAGAATG  
GCTTTATTACTTTGGTGACTGTTTATGAGTTTTAAATAAAAGACTGAAC  
ATTTTCTCGAAAAAAGAAAGAAAGTACCTGCTCGGGCCGG  
CCGCTCGAAAG  
>Sequence 1200  
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TTTTAGGCAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAA  
AATGGAATTTATAATAGAACCTACATCATGAGTTGGTGTGAAGATTAAAT  
ATATTTATATCCCGGCTGGGTGCGGTGGCTCAACCCTGTAATCCAGCAC  
TCTAGAAGGCCAAGACAGACAGATCACCTGAGGTCAGGAGTTCAAGACCA  
GG

Table 2

## &gt;Sequence 1201

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TACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTGACTTATT  
TATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTTGAATGGTGTGG  
TGAAAATTAAGAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAAAAAAGTACC

## &gt;Sequence 1202

GGTGCTTTTTTTTTTTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATCAAAAAACATTTT  
TAAACTTTTTTTTGCCAAAACTTTTCTTTGGAAATGCAAAAAATAAAAA  
GGTTCCTTTTCTGCCCTTAAGGAGCTAAAATTTTAAAAAAAACTTTAA  
AAAATAAAAAATACAATCCCTGCCCGGGCGGCCCTTAAAAAGGGCA

## &gt;Sequence 1203

ACTAGTCCATTCTCACACTGCTATGAAGAAATACCTGAGACTGAGTAATT  
TATAAGGGGAAGAGGTGTAATTGACTCACAGTTCTGCAGGGCTGGGGAGC  
CCTCAGGAACTTATAATCATGGCAGAAGGTGAAGCAAGCATGTCCTTCG  
CATGGCAATGGCAGGGAGAAGTACC

## &gt;Sequence 1204

GGTACTTTTTCTTACAAATGAGTAATTGAAGAATTTTGTTTAGCCAGAC  
CATTTAATTCTCATCAATTGCATAATTTCTAGTTAAAATCCGAACTTCA  
TTCTATATTAAGTAACATTTTATTCAGATCCATATCTAAATAGCAATTT  
GTGAGATTTACTAAGAATTTTCTGGTATGTATGGTTTGGTGTATTGG  
AATGTACCTGCCCGGGCGGCCGCTCAAGGG

## &gt;Sequence 1205

GGTACCAGAAGCTAATCCCCACCGGGTTGGTTTAAATAGGGACTAACTA  
CTTTGGAGGACATGGGAGATACCTCAAGTTTAAATGCTTATAAACCAAGG  
CTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGCACAGTGCCCA  
AGAAGGTATTAAGAATGTTTATTCAGGTGTTATTTGTCATAGTGAAT  
ACTGGAAGCACTGTAACGGTCCATTACAGAAGAACGGATAAAAACTATTG  
TGACTAATTTATATAACAGTATAGCATACGGCAGAGAAAT

## &gt;Sequence 1206

CCCTTAGCGGCCCGCCCGGGCAGGTACAAACAATTTTTTTTAACTAGCAGG  
GCATGGTGGTTTGTGCCTTTAGCCCTAGCTACTTGGGAGTCTGAGGCAGG  
AGCACTGCTTGAGCCAGGAGTTTGAGAATACAGTAACTGTATCACACC  
ACTACACTCCAGCCTGGGTGAGAGAACAAAACCTGTCTGAGAAAAAAA  
AATTAACTGAGATGCATTTCCCCCTTTTACACTAAGAAACAGACCTT  
CTTTGTTTCTCACTGGCCGCCAAAGGGAATGCTGTATGAGCATTTACGGT  
GCAGATGCAGCTGCGATATCAGAAGACCCCG

## &gt;Sequence 1207

ACCTTGATCTCTAGCAACGAGGGAAAAATAAGAAAGATCAAGATTATTGTG  
TCTAAAGAAAACTGGGAATATATATACTTGACCCGCTTCACTTGCTTACA  
TTGTCTGTCTGATTCTTCCAGGCATTAATTAGAATTGCAACTCCTAGCT  
GGGCACAGTGGCTCATGCCTGTAATTCCAGCACTTTGGGAGGCCGAGGCT  
GGTAGATTACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCA  
AAACCGCATCTCTACTAAAGGTACC

## &gt;Sequence 1208

GGTACCCATATTGCTAATGCTAGGATCAAGATACCACATAGCCAGAACAA  
GAAGTTGAAGGTAAACATAGAATATTTTATACAGGCACTCACACCTGCCA  
TTTCGGAAAAGGATTAGGAATCCAGATGCCGTGAATTTAACTATTCGTTA  
CAGGCTTGCTCTGCAATATGCTCTGGAGCAACTTGCCTGCAGAGATTTCT  
GTATCCACGGACATTTAAATATCGCAAAGGCTATCTCCAGGCAATGATGT  
TCCTTTGCTTGTATCCCCGCGT

## &gt;Sequence 1209

ACGCGGGGGAGGTCTCCATTAGTAGGTGGCCCGGGATGAAGGCCGTGTT  
GGGGCTAAACCACACTCTGGAATTCTGTGAGCAAATTCCTCGCTGTGTGA  
ACTTGAGCAAGCCATTCACCTTTCTTAAGCCATTTTCTTGATATTTACA  
GAGCCTACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA

Table 2

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AGTCTCTGCCCTTTAATGTACC

>Sequence 1210

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ATTTTATCTGACTAGAAAGCCATTTATTACCAAACCAATTTATTTCTTAGA  
GTTGAAAACCGTCTGTGAGAAAGCTTCTCTGCCCTGGATGGAGATCCAGCG  
CTTTTTTTTTTTTTGAGGCAGAGTCTTGTCTGTGCGCCAGGCAGGAGTGC  
AGTGGCACGATCTCTGGTTACTGCAACCTCCACCTCCTGGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGTC

>Sequence 1211

GGTACTCTGCCAAGAGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATG  
AAGGAACCTCCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGAGA  
ACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTTAATCCTGTCAATTG  
GAGACTTGAGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCCAAGATC  
ACACAGCACTGGAGAAAGTGGAAGAGGAGGGGCTGAAGAAGCTGATGGGC  
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCC

>Sequence 1212

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ATAATATTGCTGGTTTTTGTCTCAACATGAATTAATAATATGGTGGCTAATG  
TGCAGATTTTACATTTGGAGAATTTAATTTTTCAGTATTAATTAGAATTT  
GTTTAATATTACAAATGCATTTAATGACACTTAAATTTGTACC

>Sequence 1213

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CTCCAATTAAAAAGGAATCAAAGCACCTCAGATAAATGTTTAATCCAGG  
GCTGGGGCAGGGAAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAG  
AAAAAAGTCACAATAAATGGTGGGATTATGTCAAAAGGACATGGGATTCA  
ACTTGAAAGATCTTCCAATAGCCAAATCTGAGAAAAGTTAAGCAACAAAA  
AAAATAACAAAATCTTATAATCTATAGAAAAAATATGAATGTATA

>Sequence 1214

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TAGAAATTGGCGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGGT  
CACCACATGCCATGCGGGGTCACAGGAGAGTTGCATTTGGGAATAGAGTG  
AACCAGTAGGGGCTGTGGAAGGCAGGCTTTGCAGTAACAAGAGGAAGAGG  
CGATTCTGGCTCCTCCAGATGTGACAGGCTTGTGTGAATAATTTCCAG  
GCTGGAGGGAAGTGAGCCACGTTGAGACCCAAGGAGGGTACCTCGGCCGC  
GACCACGCTAG

>Sequence 1215

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CTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATT  
TTGGGCTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCAT  
GATGACAATTTTGTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTT  
CAAAGGTGAAAATTTTGACCTTTGTATTAACAAAGCCTCAAGAAAAGAGAA  
ATTCTGCCTTTTAAACATTGGTTTTCTTGCAAT

>Sequence 1216

GGTACATGGAGGAAGTGGAGGTAAATCGAAACCGAGCTGGATTACTTCCG  
GTCTGAACTCAGATCACGTAGGACTTTGATCGTTGAACAAACGAGCCTTT  
AATAGGCGGCTGCACCATCACGGATGTCTGATCCGACATCCTGGCCTGT  
AACCCTATTGGGGATCTGGACTCTAGAATAGGATTGCGCTGATATCCCTA  
GGGTTACTTGTGCCGACGGGCAAGTTATTGGATCAGATTGATATAGTAC  
TTGCGCTCTGACTGGTGGAGTCTTACCATGT

>Sequence 1217

GGTACCACTGTGCTCTAGCCTTGGTGACAGAGCGAGACTGTCTTAAAAAA  
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AGCTGCATGCTTGGTTTTTGTGTTTTAGTTATTCTACATTGTTGCCATTAT  
TACCAATATTGGGGAAAAATACAACCTACAGACCAATCTCAGGAGTTAAA

Table 2

TGTTACTACGAAGGCAAATGAACTATGTGTAATGAACCTGGTAGGCATTA  
TTTATTGAATTATCATCATTCCATATGTCCAGCACATTTTAAATAGGAAA  
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>Sequence 1218

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TAACTATTTAAATATCTGCGTGATCTTCTTTAATTTGGGCTACTTCTAGA  
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GTTTACCTAAGTCAAGTGTAATGAAAAACATAACCAATGCACCATGGGG  
TTTATTGTTAGATAATAAAAGGCTTAAAAAGCCCCTAGACCCTAAAAATG  
CCTGGGATGGATGATTGATGCTCATATGCTACTTGAGCATGTA

>Sequence 1219

GGTACCTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAATCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAA  
CTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAG  
ATAAATATCTATCAAAATTAACCTTAAAGAGAAATACTCTTTTCTTAAA  
AGCCCTTATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAGTGGTG  
GTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTTT  
AGTTTTT

>Sequence 1220

GGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCAATGCTGGTTGAT  
TTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGAAAAAAA  
TCCAAATAATAAAGTGACATATTGGTGTTCAAAAAAAAAAAAAAAAAAAG  
AAAAAAGAAGTCCTTTTTTTTTTTTTTTTTTTGTTACTTAATAAAAAA  
ACTGAGTTTTATTTACATGTATTTTGTGGNTCCCCACCTTTTCCATGT  
TTGACCACCGCTACTACTTAGTCCTATCATAACATTCCATACATACTTAA  
AACC

>Sequence 1221

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>Sequence 1222

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CTTGTCCTTTCGTAAGGCTGGAATACCTAAACTACGTGTAAATGTA  
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>Sequence 1223

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GCAAAATTTAAACCTATTTAAGGGAGAGAGAGCTCTGTAAAAATTCATTT  
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>Sequence 1224

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CGTTTCTACTTGGATCCGAGACTCGAACTAAATCCTGGCGTTGTCATGGA  
CATAGCTTTTTTCCCGTGTGAAAGTGTTAATCCGATGACAATTCCACACT  
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Table 2

CAAGGGTTAAATATATAACTCTTTCCGTCTTTTAATGGAACATTGCTACG  
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TATAGTAACTCTCTTTAAATTGGTTTCTGCTGATGTTTCTAAAAATCTA  
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>Sequence 1225

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CTGTATGATCATCTTTAATATTATTATCAATTTTGTATATTTAAGTTAG  
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>Sequence 1226

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AGACACAAACAAAAGCAGCGGACGTATTAATATGCAAAACACACAAAAGCA  
CACAAAAGCAAAGCAAAAAGCACGCCAGTAATGTTGTGGATGCAGTTTCA  
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>Sequence 1227

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TACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAATCTG  
TCTGTGCTATATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAAT  
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>Sequence 1228

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ATAATGATTTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTG  
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>Sequence 1229

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TCTTCTCCTTGAATTCTAGTACTTTGTGAAGTGTGAGGTGTCCCTTC  
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>Sequence 1230

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GGAGATTGTTTGAAGCGAAAAACAGTGGGTATGGCAATACTGAAGTGGA  
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>Sequence 1231

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Table 2

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ATTGGAATGGATAAAAGATGCTTGGAACTAAATTTTGGTTTGGCGAAAA  
AATCTGAAAAAACTGCCCTGATAAGGATAATGGGAAAAAATGGCAATCC  
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>Sequence 1232

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GGGTCCGCTTACTGGGCTTTTGGCCAGGGACTTAATTTTAAAACTAAAA

>Sequence 1233

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GGGCAACTTCTAAATATTGATGCAACCATTAATAATAATGCTTATAGGGT  
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ATTTTGCTCACTACTTCATATGTTTTATGTAGATTATTCCTATAAACATG  
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>Sequence 1234

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TTATTATGGTTCTGCAATCAATTGAAACCCCTTTGGGGTTTTGTTCCTCC  
AAACATTTTATTTGTAAATCCATAAAAAACCATTTTCTGGTTAAAAAAAT  
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ATGGAGANTTCAATAAACCTTTTCTTCCCAGGGAGACAAAAAGAAAGTAC  
CCCTATGTAAAGGATGGGGATATTTTGGCCTTTTGGGTCCGAAAAAAGGG  
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>Sequence 1235

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ATT

>Sequence 1236

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>Sequence 1237

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AACTTTTAAAGAGCTACTTTGAAATAACAGAAGTCTTGATTAAATATTG  
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GCACTTTTAAAAAAATTAATTTCTCAGTATACTCCATTAAAAATACCATTG  
TTTGTTAAAAAAATTTTCATAGATATTACCAAGAAATATGGAAATTAAT  
AAAAAAATTGTATACTTCCCTTTTCTCAATTATTAGATATTTATATGAAT  
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>Sequence 1238

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Table 2

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TGGGTTTACTCACCCCTCAGATTGGGTAGAACATCTGTCTTCAAAGAAAA  
CGAGTGACATTCTTTGCAAATTCCTTAAAGACCCCGTAGGACAAGTATA  
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>Sequence 1239

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CTAAGATGTGTTTGTACC

>Sequence 1240

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GCTCTGTTGTTTCACTTAGTATTACTTTAACTATTAGGGCTCTTTTTTG  
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>Sequence 1241

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>Sequence 1242

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GATTGCACCACTGCACTCCAGCCTGGGCAAGAGTGAGACTCCATCTCAAA  
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>Sequence 1243

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>Sequence 1244

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Table 2

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AGTAGAAATACCACATTTTCAGAAACAGCTGGAGTAGACAGGTCTTCATAG  
GCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTC  
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>Sequence 1245

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>Sequence 1246

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GAAAAAAGGCTCAAAGGGGCCAAATAGGCTTGGGATAGGGGGTAGAAGGG  
ACCAGGTTCTAGCATTGGTTTCAGACCCCTGGGGGTTTCTTGGGATTGTA  
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>Sequence 1247

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>Sequence 1248

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>Sequence 1249

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CAAACTGTGCAGTTAAATTTGTATACGTATTCACATACTGAAAGATGAA  
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Table 2

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>Sequence 1250

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CTCGCGGAATTCAGAGAAGGAAGCTTGCCAGGGATTTATATTCTGGCT  
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CACATGTGCGCAATTATCTTGGGCAAATTCGTATTAACGCTTGCCCTTTCTG  
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TATCTCGTATAACTAGTCGCCCGCCAAATTTGCGAACTCCTGCAGCCAT  
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GATTG

>Sequence 1251

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AGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTC  
AGCCTATATACCGCCATCTTCAGCAAACCCTGATGAAGGCTACAAAGTAA  
GCGCAAGTACC

>Sequence 1252

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TCCTGGGTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTGCTTTA  
CAAGTCCTGCTTCAGGGTACCTTCCCTGACCACTGCTGCCTCCCTCCCA  
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>Sequence 1253

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GGTTTTACCATGTTGGCCAGGCTGGTCTTGAAACTCCTGACCTCAGGTGA  
TCCACACGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC  
ACGCCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGCCTAACACA  
CTGCCTAAATCAAATTTGCTATTCACCTCAAGGGTATTCATTACCTGACT  
AGCTTTTTTGGGTGCATTTGAACATAATGTAAATTTATGGCTGATCAA  
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>Sequence 1254

ACAGTCTTTTATCTTGGGATAAAATGGCTAGATGAGTATGGACAGGGAGG  
CAGGGCAGATACAGTCCTTGCTTCTGGTTTTAGAGTTCTTCTGAACCACA  
ATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTCAG  
ATCTATTGCTGACTTTTCCCTCCACCTTCTCTACATTCAGCAGCACCTAGGG  
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GCACACTATTATCCAATTGGATAGACCCACATCTAAATGTCTGCAATTAC  
AGTAATGTCAGCTGGGCATGGTGGCTCATGCCTGTAATCCCAGCATCTTG  
GGA

>Sequence 1255

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Table 2

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ACACTTGACAGCAATGTTATTAGGGAGGGCTGGGATGTTTGGTTAATGTT  
CCCATTTAGGGTCCAACAATAAAGCCTGTTCAATTACAGTGTCCAAATGA  
AGTTTGACTTGGCTTGAGCATTTTCTGAAGACCTGGGTGGGTGTTTAA  
ACCCATGCAATTTGGATCCCCAAAAAGGGGAAAGGGGCCCCCCTGGTT  
CCTGGCG

>Sequence 1256

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AGCAGTCTTTCTCAGCTCACTTGGCTCTCTAGATCCACTGTGGTTGGCA  
GTATGACCAGAATCATGGAATTTGCTAGAAGCTGTGGAAGCTTTTACTCCT  
GCAGTAAGCACAGATCGCACTGCCTCAATAACTTGGTATTGAGCACGTAT  
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AATG

>Sequence 1257

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AAGTATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAA  
GAAATCAGATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGCG  
GCAGCCACATAAGGCGCTGTTACACCTGGCTGTGTCTGCCAAGTTAGTC  
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AACCAGTGTGCTTAAACACAGATCACCATCAGAGGTTTATTTACAGC  
AAGG

>Sequence 1258

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TTATACTTTTAGATGTCACAGAAAATTAGAGTATTTATTGTCAAAAAAA  
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>Sequence 1259

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GAATGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCC  
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TCAGAACTGCAGGGAGTTCCTTTTAGTCTGGCAATCTGAACCTGATTTT  
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>Sequence 1260

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GGCTCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCT  
AAGGAAAATTGCTAAGTCAGTGTACTCTCTAGTGATGTTGAGAACTAGA  
GGGATTTCCAGACCTTTTACTTTTGATGAAAGGTTGTGAACTGGTGGCTG  
TGGGTCAAATCCATCTCACAGATTTGTTTGGATCACACAGCA

>Sequence 1261

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CAACTCTGCTATTAAGGACTCTGATGCATTCTTCAAGTATGTGAACTGCT  
TTTTTCAGCTCCAGAATTTCTGCTTCATTCTTTTAAATTCATCTCTGTT  
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CTCTGAGTTTCTCACTATTTTGAATTCCTGTCTGAAAGGTCACAACTTG  
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>Sequence 1262

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Table 2

GAGAATGCAGTATACTTTTTGAAAACCTTCGTGCAGGAATCCCTCAAATGC  
TGTAAGTACAGGAATGGGTCAAGTTCAAACGACTTTTCCTTGAGGGAG  
TATTTTAATCGGACAAGGGAACCTTTTTCTTTGGGCAATGGCCAACAG  
GACTGAGAAGCCAGAGAGCTTGACCTGAGCCATCTCAGCCGTGAGAGTA  
ACAGTCTAGGAAAAATAGATGGGGGCTGGGGTAAGGAAATGTGCTGAAG  
ACAGAGCTATTCTGGA

>Sequence 1263

GGTACTCTTTTTTTTTTTTTTTTTTTTTTTAGGGGTTTTCTTTGTAGAG  
ACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTGAACTCATGGGCTCAA  
GTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGT  
CACCATGACTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTTAGC  
TGTAATAGTTTGAAATACCTCTCTGATAGGTGCTAGCTTATCGTTACTC  
TTAGTGCTTCTTGCAATTTGCATAGTCAAACTTGATACTTTTTGTGAAC  
TTGAAAGCATGC

>Sequence 1264

ACTTTGTGTTAAGAGAAATTCCTAAACTGGATATATGTGGCAGGCTGAA  
AGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTGGCTCATG  
CCTGTAATCCCAGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGC  
CAGAAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAA  
AAGATCTAAATTAATATTAATATAAAATAAGGTTCTTGGCCGGGACC  
ACGCTAAGGGCG

>Sequence 1265

ACCTTATTGTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCTATTGG  
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AGACATCCTTGAATTACACCAAGAACATGAAATTTAGTTGTGGTTAAAT  
TATTTATTATTTTCATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAG  
ACTTCTTTGGGGAGCCTCTAAAAAAATTTTCACTGGGGGCCACGTGGGT  
CATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTCCCAGTGCCTAAAGGGG  
CTATAGGAAACATAGATCCAGCCAGGGGCTT

>Sequence 1266

CCCTTAGCGGCCCGCCGGGCAGGTAACACTGATTTGAGAAGAAAAAG  
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CCACTTTTGTGTTTCTCAAACATGCAGAAAGTAATGAGGTTTGACAGAGA  
CATGAGACTATAAGATGTCTGTCTGCTGCCAACCATGGAAAAAGATGTT  
AAGATGTCCAGCTGCCCATAAATCATATTTTCAAAGTGTGAGACACGAA  
GAATATCTTCTCTTATTTGGAAATATGCTGAAGATAGGAATAAAGAAAA  
GGATTACAGTAAATGGAGACGAGAGATACAGTAAAGCAGAAATGTATAT  
GCC

>Sequence 1267

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TTACAAAGGTTACTTTGTTTGAAGAGATGGTATGTTAAGGTTAGATAATT  
TGGAAAAATATTTCTTGTCTAGGTAATACCCACAGTTTATCTTTACCCAG  
ATCCTATAAAATTAATAAATGGCAACGTTTGTACAGCCCTTTTCAGAAAAA  
TCTTATGGACCTTTTCTTGGAAATTTTAATAAAAAATGGCAATTTTTTT  
TTTCAATTATTGAAAAAGAAAAACCAAAAGCCATTTTTTGGTAAAAAAA  
TAGGACCATATTTGGTTCTTTAACAACCAAAAAATGGGGTTGTTGAAAC  
CCCTATTTGGGCCTTTTATTATTTTATTAAGGGGCCATTATTATTG

>Sequence 1268

ACGCGGGGGGCTTTGCAGATGTGATTAAGCAAAGGACCCAGATGGGGAG  
ATTATTTTGAATTACCTAGGTGGACTCCACGTCATCACAAGGGTCAGAAT  
CCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCA  
AATTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCCTCTAGAAGCTG  
CAGAAGGCCGGGTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCAC  
AACCCTGCCCACTCACGGTAGACTCTCGATCTCCGGGCTGTAGAATAATA  
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Table 2

TAGAA

&gt;Sequence 1269

GGTACATTTAAAAAGGTGATGCTAATACTTTAAAAATGTTTAAGATATAGAT  
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GGAACAAGGACATAATGTTTAAACATTAAAAAGTTGCAAATTGTTAACACT  
TAACCATATGGATTAGTGTAATGGCATAACGTTGACCCAAATTTTTTTGTC  
TTAAAGTTTAAAAAATTACCATAAAAACTTATTTAACAGCTGTACTTAACT  
GGGAATTTAATGGTCCTAATTATAGACAAAAATACTTTGGAATATCTTGG  
CATTTTCCACAAACAATTTAACTTGGGCAGTTGCCTTTTTTTTAGCTTTT  
GGCTTTTTTGAGGTGGCCTTTTTGGATGTTGGTAATGGGCCTAATTTAAA  
TAAACGTTCCCGACTAGATTTTTTTTGTCTTGTGGTTCTAACATA

&gt;Sequence 1270

GGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGAAGTATCCTC  
TCCTGAAATTATTAGGCAGCACTTGGGTCAACCACTCCGCCGTGACCCAT  
ACCAAAGCCGTCGCCTTGGGCACCGAATAAACACAGACGACTATCCAGCG  
ACCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTTG  
TTGCACAGGAGACTTCAGTGGAACAGGGCCTCCAATTCCTCAACTGCAT  
TTTAAACAGCTCACACCAAAGGGACGGGATTTAACCGGTAATTAGGTAA  
CAACTACAACCCATTAGTTAGCTTGGGGGGGGGGGGTGGCTTTAGGGGC  
CGATATTTCCAGCACCACTTGGTCGGGCCGGTTACTAA

&gt;Sequence 1271

GGTACAATTTTTAGTCAAGGGATTGTTTGATACTCTTTAAGTTCAGTGCC  
AGGCCTACCACTTATCTCTGTCGAGGAGGAGAGTTCCCTGTAATGAGAGG  
TTTTTAAGACGTCCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTT  
GGAGCTCAGGATATTAACCTGAGTGGTGTCAAATATCCAGGATCAAAT  
CGACAATTGCCATTGTGTTCTTGGCCGGGCTGGCCGCTCCGAAAGGGCCG  
AATTTCCAGCACACTTGGCGGCCCGTTACCTAGTGGATTCCCAAGCTTCT  
GGTTCCAAATCTTTGGCGTTAATTCCATGGTCAATAGCCTGTTTCTTG  
TGTGAAAATTGTTTATCCCGCTCACC

&gt;Sequence 1272

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TTCAGCCTTGAAATGTGGACCCAAAAAACATTCTATTTTTTCAGTAATCCA  
TTGAATTCGGTGAGGGTCCCAACCCCTCAAATCCTAATTTATCACAGCAC  
AAGCCCTTCCTTGGCTGCCAAGCGCTGGCGGAGAACTTTGTCTTGCTGCA  
GCTCTTCATGAATTGGATGCCAGAGTTTCGTGATGATCCTTTCAATGTTA  
ATAGCATAGACTTGCATGTGTAGGGATGACTTCCCTTTGCACCTGCTAAG  
GTTGATAAGAATCGGACCTGCACCTGGCGGCCGCTCTAAAGGGCTAATTC  
TAGAACACTGGCTGTT

&gt;Sequence 1273

ACTTTTTTTTTTTTATTTTTTTTTTCTTTTTCTTTTTTATTTTTTTTTTTT  
TTTTTTTTTAATTTTTTTTTTAAACAAACCCCTAAATCAAAAAACCCCC  
AAAAAAAAAAAAATAACCTTTTCCAAAAACCCCCCTTCCAAAAACCC  
CCGGGAAAAAAAAACCCCAAGCCAAAAACCCAAACCCCGATTCCCCCT  
TTGCCCCCCCCCAAAACCCCCCGCAAAAAACAACTTTTTTTTTTTT  
TCTAAAACCCCCGGCCCAAAAAAAACCCCCCTTTTAAAAACAAAAAT  
TTACCCAAAACCCCAATAACCCCTTCTCAAATCCCCAACAAATCAAAAA  
ACCCAAAC

&gt;Sequence 1274

GGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTCTGGAGGCTAGAA  
GTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGAAGC  
AGAATCTGTTCCATCCCTCTCTTCTTGTCTTCATCTGTTCTATGTCGTG  
TTGTTCAAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGG  
CCCAGTCCTAATGACCAGATCTTAACATTTGCAAAGGCCCTATTTCTCAC  
TAAGGTCGTATTTACAGGTATAAAGGGGTAGACTTTAACATCTTTTGG  
GGAAGACACAGTTCAATCCGTAACAGATGGTTAGTCCTTTCCTCTCTAA  
AT

Table 2

## &gt;Sequence 1275

CCCCTAACCGTGGTCCCCGGCCGAGGTCCATTTAAAAGGGGTGCTTAAT  
CCTTTAAAAGGTTTTAAATATTTGATTTAAAAGCCCTTGAAAAATTGG  
TTTCTGGAATGGGCCTTTACAAGGGCATTTGACCAGGGACATTAATGG  
TAAAAACAATATAAAGTTGGCAAATTTGTTTTACACTTTAACATTATTA  
TAAGTGAAATGGGTCAAACGTTGACCCAAATTTTTGTTTTTAAAGGTT  
TAAAAAATATCCCAAAAAAACTTTTTTTACCCGGGGGCATAAACCTTGG  
GAATTTTTATTGTCCTTATATATGGACAAAAAATCTTTTTGGTTAACT  
GGTATTTTCCACCCAAATAATTTTCTTTTTGCGGTGGGCCACTTTTTTG  
TGTTTTTAGAATTTTATGAAGGATGTCTCTTTTTTAGTGAGTGACCAT  
ATTTCTTTTTTAAAAAAAACCCTTTCCTCTATTTTGATTTATAATA  
TCTACTTGTTTGTTCAATTATATATAACAAACC

## &gt;Sequence 1276

ACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCT  
GTTGTATTACCTAAATTAGATTAAACCAACCTGAATTATAGTAGATTTT  
TCAATAGATGAGGAACTGAAAAATACTATGTAAATATCTTCCAAAATGC  
TTTTTAACTTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTCTGTTAG  
CTTAACTTAATGGGCGTTATTGGATTCATATGACTAACGTTTCCTCAGTA  
TTGTAATGCTTGAAATATTTGAAAGAAAAAATGTTGTTTTTTAGTTGAAA  
CTGGTATATATAATTCAGTGCTTGGCAGGTAGTATATTTTTATGCATTT  
TT

## &gt;Sequence 1277

GGTACCAACACAATTGTTAATTTCTCACAGGCTCAAGGCATTCTGGGAA  
GCTATACAGGGGACAGGAAGCATTTTGGGGAGCCTAAGGGGAGCCAGTTT  
GGAAGAGACAGCATTTCTCTGGCTAGGACAGGTGGTGGCGGTGGCCGGGT  
TTAAGGTTCTCCAAGGGACCCTTTGCAGATGCCGGGGCCCTGTTTATTTCT  
GAGCACGTGAAGATGAGTCACATAGCTTGGTGGGAATGGCACGTGTGGAG  
CAAAGCCCTACACACACAATGGTGGTGTTTAACCAGCTTTATAGCGACTG  
TGTTTGAGGGGACTGGTACATGTCACTAGGGGAACATGGTATAGGTGCA  
CTGCTT

## &gt;Sequence 1278

GGTACTAAAACATAAACTGAGCAGTTTAAAACATTCATTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAAAAATAAATGGCAACAAAATTCTTATATCTGCTT  
CTGCAGTTAATCTGTTTCAATTTGTTTTGTTTGAAGTATATGAAGGAAATC  
TGTCTCACACAGTTGTGTAGTGGAAGAAAGGGGACTATTGTAACAGGCT  
GTGCACATAAATTGTGGATGATTTTCTTTGATACAACAACAAAACCTTGGGG  
GATG

## &gt;Sequence 1279

ACAAATGTGATTTATCAATTAATTAATTTGAATTCATGGAATGAAATAT  
AAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAATCATT  
ATAATTTGATAATTAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATT  
TAAATAAATAGTATAAACATAAATGAAAATATTAAAGTAATTTCAACGTG  
ATAGAGACCGCTTATTTTTAGTTCAGGTAGAGTTCCAACCTAATGGTAAT  
TAAGATTCCAGATCCGAAAGATGTCATGTGAATATTGCTCTGAAAAACCA  
AAATTAAGCTTTCTTAAAGATGCTGTGTAGGGCTGAGAGGTTTTTCACT  
TGTACCTCG

## &gt;Sequence 1280

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TTGAGCATAGATATTAACCTTAGCATGGACAGAGAACTTATTTCTTGGG  
GGACTGGCATAGTGAAGAACAGAATCAGTATGACCTGAGAGAGCAGAAA  
AACTTTACAACAGCTAATACTACTTGCTACATTGCTGTTGCTTTAAGATT  
TGAGGGAGGAGGTACTAGAGCCTGCCTGAGATCCTTTTGAGGTCAGTTTT  
GAATTTAAGCCTTTTCTTTTTTTTTCTTTTATTAATTTGAAATTTTAAAA  
TTATATTTTTGGGTGTTCTAATTATCACTTAAAAATTTCTAATTTTTTCTT

Table 2

TTTTACTTTATACTTTTT

&gt;Sequence 1281

ACCTCTGACTTTCTAACAAATTACCATAAAGGAAGAATATTTTTCGTCTA  
CTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACATGGCTAAT  
AGAAAAAAGAGCAGTTTTTAAATATGTTTTATGTAACCTATTTTCATT  
GTTTTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGG  
TCTCAATTTCACTATGAATAAAAAAAAAAAAAAGGAAAAAAAAAAAAAGT  
ACC

&gt;Sequence 1282

GGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAGGTTTGTCAATAT  
TGTTGATCTTTTAAAGAACTAAAAATTTGTTTTGTTGATTTCTTTTATT  
TTTTTTCTGTTTTATTTATCACCACCTTATTTTTAGTATTTCTTCC  
TTCTGGTAGCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGT  
TACGCTGTTGAAATGAGATCTTCTTATTTAATGTATGCATTTATAGCTCT  
AAATTTTCTCTTAGCACTGTTTCACTGCATGCTCTAAGTTTGTATAT

&gt;Sequence 1283

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAATAAAAACCGG  
GACTTGGTGGGTGGCCCAAGCTGGGCTTGAACCTCTGGGCTTAAACAATC  
ATACTGGTTGGCCACCCAAAGCACTGGGATTAACGGGGTGAACCAACAC  
ACCCAGCTTTTAAACACACAGTATTTTATAGGGCAATATTACACACCTGGC  
CCAAGGACTTACAGGGGGGGGAAAAGCTTGGACTTTTGGCTTTTTTTTTT  
TTTGGACCCAAGCACCTGGAACCTCCATTTCTTCTTCAATTACGTTT  
AAAATC

&gt;Sequence 1284

GGTACTCACAAATAACAAGACAAATTTGACCTGTTCAATAAATAGAAATG  
AAGTGGCTAAAAATGTTTAAATGGAAGTGGAACACAGTCGTCTTCTTTGT  
ACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTTGAAGTCTTCT  
CCTTTTCACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGC  
AGACAATCTTGACTGAAGCTGTTGACAATCTAGGTCTTTTGTATGAAGGG  
TTGCCTGAATATTCTTTTACTCACAGATTCTTCATTATGTTTCTCCT

&gt;Sequence 1285

CCCTTAGCTTGGTCGCGGCCGAGGTACTTTTTAATCTTATTATTAAACTA  
ACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAACGAGATAAA  
GAATTGCTCATATCTCCCAAATTGTGTAGTATAAAAAGAATGCTGTCT  
GGTTGTTTTTGTAGAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGC  
TACCTTCTATTCAACACAGCACTAGAACAAGGCAAGTGGGACCTTTGTC  
GACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGACA  
CCTGCATCCACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTC  
TCTAGGCCATACCCACGTAGCATCTTTCTCTAATGGT

&gt;Sequence 1286

ACACAGGATGTGATCAACAAAGTTCTATTTTACAGGAGTATGATCCTGTC  
GATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCAGCTGTTT  
TCTTGACAGATCGAGAGTGAGGGGTATTTGTGACATTACACAGCATCA  
GGAGCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAA  
TTTATTAAAGACAGGAACACAGTCAATCTGTAACCATAGTAGCTCTACG  
TTTACTTGAATCCACAATCCCTAACCCATCTGTCCCTGGCAGAAAGAAG  
GAAAGATGACATGCATGGACAGTGAACAGAAAGGGATGAAAGCCAGGATT  
CCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGTCACAACC  
TATTACTATGTCTAAAAACGACCAAGCAGAGAGCCAGAAAGAATAAGCC  
TGAAGTCACCTCCACTCAAAAGCAGCCAACTCCCTCAAAGGAGTAACTT  
TTAAACCTGGATCTAAACCTGAAGGGGCTAAAAAGTGTCTGTTTCTGAG  
TTTTCTTCTTAAAGCTCATGAAGCAGATGAACCTACATTTTATTGCCA  
TTTCATATCAAATGTGGGTGGTATAACCTTAGGATTTCAACAGACTTTTG  
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ACAACTTGGCGGGTACTGTGGACCGAGCTCGTACCA

&gt;Sequence 1287

Table 2

GGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCA  
GTTTCTTGGACCAGAACAATAAAATACATAAGACATCGTTTCTATATGGT  
CATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTAT  
ACAGACCTTTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTT  
TTT  
GATTTTGTTTTGTGTTGATTGTGGAGTAGGAGAAATAGTGAAATTTGA  
AGGTAGAGG  
>Sequence 1288  
GGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTTAGAATGCCTAAC  
CTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCCTT  
GCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGG  
TCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTTCAGTGACAGCAAG  
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AAAACAGTATAACTTATAATTATCTGTTGTGTTACAATGAAGTATATCAT  
CACTGCT  
>Sequence 1289  
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CACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAAAGAGGTT  
TAATGGACTCATAGTTCATGTGGCTGGGGAGGCCTCACAATCATGGTGG  
AAGGTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGC  
CAAGCAAAAGGGGAAACCCCTTATGAAATCATCAGATCTCGTTAGACTTA  
TCCACTACCACAAGAACAGTGTGGGGGAAAGCACCTCCATGATTCAN  
>Sequence 1290  
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GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTTGT  
CAAATCCCAATTCCCCAGAAATGGTCCTCACCTCATTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC  
AAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGGAGAGGCCTCT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCAG  
>Sequence 1291  
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GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTTGT  
CAAATCCCAATTCCCCAAATATGGTCCTCACCTCACTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC  
AAAAGACAAGAAATGGCTCTCATGGAATGTAGGTGGAAGGAGAGGCCCTT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGATCTCTTGGGG  
TAAGGGAGCCACTGGTCAAGAATAGGCAGC  
>Sequence 1292  
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CCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGGTTTA  
TTAGCATCTACACTTTTGTCAAGTTGTGTCGCTGTTTCCACCCATTTTA  
TTATACTCTTAAAAGATGTAATTGTTGTCATTTTGAACAGTTAAACATCT  
TTGGGTATAAAAAGAACCCCAATGGTTATGTTATGCTTTGTAAATTTGT  
TTTTTTGGTTTACCTAAATAAACTTTCAGCTAATCATATAAGGAAAGAG  
ACTGTCTTTTT  
>Sequence 1293  
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TATGCTAAACAGTGCTGTGATAACTTTTGATCACTTGGAGAATGCTCCT  
GAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAA  
AGGGAAATTTCACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAAT  
ACAGTAAGTCTTTTAGTCAGATAAAATTAATAATCTTAAATTCATTAT  
GTTAAAGAAGAAAGACAATTAAGAAATCTGACACTAATCAGAAGAAATTA  
GAAAACGAATAAGTAAAGAATCTGAAAAGGAGAAATAAAAA  
>Sequence 1294  
GGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTCTGGTTTTGTGTG

Table 2

CTTCACTGTCTTCTTGGCATGAGCTATGTTTTAATTGGAAAGAGTAGGG  
CCGCTTCAGAGCCTCCTACAAAAGTGCTAGGGCCAAAGACTTTCTTAGCT  
TGAACATTTGTATCTGACTAAAATTGACTTGGGCAGCGCTTTCTGGAAAA  
TGACTTTGTTTTTGGCCCTTTTTCTGGTGGGTGGCCCTTATGAGTCGTTCT  
TCGGTTTTTTCTTTCAACAATTTGCCCCCTTGAAAAATGAATCCACCAT  
GGTGTGCAACCTGTCTTTTTTTTTTGGACTAGGCCCAATATCACCTGAT  
CAATGGTAATTTTTTCTCTTCTTTGGGGGGCCTTCTTTCAATGAAAAC  
CCAAATTCCTTTGGCCACCTCCAACAATTTCTTTGGGGCCGGCCCTTT  
CCTTGG

>Sequence 1295

ACGCGGGCTCTCTCCATGGGTCTGTGTTCCAGAAAGCTATGACTCTTTAA  
TGCATCTCTTAGTTTTTCTTATTTCTTTATTCTTAGTATCACAGTCC  
ATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTA  
AATCAAAATACCCTATTTGTTATTTTTTAAAAAGTAAAGTGGGGATGAC  
AAGTCAAGTGGAAATTTATCCCAAAAGAGTGGGGATTACTGTGACTATCT  
GAGGAGTTATACTTGATTTTTTTGTCTGATTTTAATGGACTGTAGGATCT

>Sequence 1296

ACAATGCACATGCCGAAAGACCTTAATTTTGGATGTGATGAAATGTTTTC  
TATGCCCTGGAATAAATGCCTTTCTTTGGGATGTAAGTTGCTTAAATAGTA  
TTTGCTCCTCATCTCTGTGAGTTACTTTAATTTTGTCTCTGAAGTAAG  
CTATGATATTCTGGCTTTACTAGTGGTGACTCATCTATCTGGGTAAGAAT  
AGACTACATACTCATTTTGGATGTATTTTGATTTTAAGTTTGTAACTGG  
TCCACTATTTAAAAATATTGTAGAGTGCTGATTACTTCCATTTGGGCCAG  
TGTAGCACCTGTGTTTATCAGGTAGGTAGATTGGATANTTGAATTGGA  
ATATTAAAATCTATAATAAACCAATGGTTTTACAAATGCCTTTATAAATC  
TAACATTGCGCTTCATCTAGATAGAACTTTCTGAAAGTGCTCCTGTCTC  
TACTTGGTGTATAAAAGGGATGACATTTCTTACAGACCAANTATATTGTT  
CGTTACTAGGATATTATCTGTGATCATCGTCCTCGTTCGTCACAAAGGAA  
AAGAATTCCATTGTTTAATGAAGAACTATGTGGATTAGAAGAGNATAAAG  
ACAACCGTCACAGGGGTCGCATTAGTAAATTGAAATGAGACATGGAGCAT  
ATTTAAAATGTGAGAAGATGTGTGAAATGTAAATCCATGACTACTCGGTG  
GTCGACTTCCGTCGTTGTAAATATCCACATACTGTAGTGAGACAAGTTTAT  
CATAGCAGAACAGTGACGGAAATAGTCTTCGAGTCTCAGTGAGTAGCTAA  
ATATCGCACCTTGTCTCATCGAACATGGAGAACTCATGATCAACTAGGATG  
AAATATTATCGTTGGTCATTGAAGGGACACTACATATTGAGATGCATGAT  
ACG

>Sequence 1297

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGAT  
TTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTACATGGCATTGG  
ACAGGACATAATGTAAAACATAAAAAGTGCAATTTGTTACACTTACATATTG  
ATAGTGAATGGCTACCTGACCAATTTTGTCTCAAGTTAATTTCTAAAA  
CTATTTCAGTGTCTACTGGATTTATGCCATATTACACATTTTGATATTAT  
ATACCTAAATATTACTGGCATATTTTTGCTTTTTTTTGTGGCTTCAT  
ATAGTTTACATTT

>Sequence 1298

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TCTTGACAGAGACTGCTCCATTCCAGTAAAAGGTGAAGGTTCAACTGGAGA  
CCTCCAAAGTTGGCTGGGCCTACGGTTTGGGGTAGGCAATTGCTGGATGA  
GCACAGAGAGGGAAAGATTTTCATGCCATGGTGATAATAAAAAGGCCACCC  
TGGGGTATGATATTGGGGACTAACGCTTGTATTTCCCAACGCTTTGGGAG  
GGCCAAGGTGGGCGGATCACGAGGTTAGTTTTTCTAAACCAGTTTAGGT  
CAACAATTGTGTAACCCTGTATATTCTTATGTTGCTAAAAAATAA  
T

>Sequence 1299

GGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCGGGCCTGGTGGCT  
CAACGCCTGTAATCCCTGCACTTTGGGAGGCCGAGGCAGGTGGATCACGA

Table 2

GATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCTGTCTCTA  
CTAAAAATACAGAAGAAAAAAGAAAAAAGGTTCTTTGTTT  
ACTGCAGTGTCTGCTACATGGCATTGGACAGGACATAATGTAAACATAA  
AAATGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAAT  
TTTTG

>Sequence 1300

ACATACAAAAAATCATTAACTCATATATTTCAAGAGTAGGAAATGGGAA  
CTGGTGTTAAAACTCTTATAACATATGTCACTGTCTTAAGGGACAGTGTT  
TAAAAACGCATACCTGGCCGGGCGCGGTGGCTCATGCCTGTAATCCCATC  
ACTTTTGGGAGTGCCGAGGCTCGGCTGATCACAAGGGTCAGGAGAATCGA  
GACCATCTCTGGTTTACACAGATGAAACCTGAGTCTCTACTAGAAATTAC  
AGAAAAATAAAAAATAAAATGTCTATTGGACTGAAAACAACACTAAGG  
TGCGATTTCCAGTTCACTGGGCGGTACTTTTTT

>Sequence 1301

ACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGATTTA  
AAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGGACA  
GGACATAATGTAAACATAAAAGTGCAATTGTTTACACTTACATATGATT  
GTGAATGGCAACGTGACCCATTTTTGTCTGAAGTTAAAATACAAAAACT  
ATTTCACTGGTCTCTGGATTTATGTCTATATTGAAAACTTTGGTTACTGT  
ATTCCAACTTTTCTTGGCATAGCATATTTGATTTTGTGTTGTGCTT  
TTGAGAATATGGACTATT

>Sequence 1302

CCCTTGAGCGGCCCGCCCGGCGAGGTAGGGCGCGCAGCAGCACTCGCCAAA  
GTGCTCGGAGATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACA  
GACAGACAGGCATGTCTGTCAGCAGTCCGTGAGACCTGTGTGCCAGTCA  
CTGAGCTGGGTCTGGTAGCAGCTGGTGGTGGCGCACTGGGGCTGACTGGT  
CACAGGATAGGACATAGCTTTGCCTTTCACGTTGTCGTGCATCTCAAAT  
GCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCTG  
TGGCAACAGTGGCAGAGTCTGTCCAAGGGACGCTGGATACTGCAGGATCG  
CGATGGCAGTGA

>Sequence 1303

GGTACTCAAAAAACAAAACAATGGAGTATGTCCTGTTGGTAGAAAAATTT  
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TAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATA  
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>Sequence 1304

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>Sequence 1305

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Table 2

GGAACCAGCAACTCTGTCAGGGATTGTAGGATTTATCCTTAGTCTTTTAT  
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>Sequence 1306

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>Sequence 1307

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>Sequence 1308

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>Sequence 1309

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Table 2

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>Sequence 1310

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>Sequence 1311

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Table 2

## &gt;Sequence 1312

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AATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAA  
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## &gt;Sequence 1313

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## &gt;Sequence 1314

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CTCTGGTCAAGAGAATGAATATGAGGATGAGGAATAATAAACTCTCTTG  
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## &gt;Sequence 1315

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CGCATTTTCGATAGGGCTATGTAGCTTTTAAAGTAAGCAATGTTAGAATGAG  
TTGTAGAGTTTTATTTTTGTGAATATAGTGAGTGACAGATGGCAATTACA  
TGAGGATATTTGAACGAAGGTACC

## &gt;Sequence 1316

GGTACCAAAGACACTTATTATTCTAACATGCATCAAGTAAAGTAAAAACAA  
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## &gt;Sequence 1317

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Table 2

ATTATCAAAATTTTTTTTCTTGGGGTTTTGGCTAAGGGGGGCTGAAATC  
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>Sequence 1318

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>Sequence 1319

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TTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCCTTCCTCCTC  
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>Sequence 1320

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>Sequence 1321

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### Table 2

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>Sequence 1322

Sequence 1522  
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>Sequence 1323

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>Sequence 1324

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### >Sequence 1325

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ACCTGTGAATCTGGTTAGAAGCTGTTAGAAGTAACCTCTCGCAAAGTTGG  
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Table 2

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&gt;Sequence 1326

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&gt;Sequence 1327

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GCCCC

&gt;Sequence 1328

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&gt;Sequence 1329

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TCCACCCAAGGGAACCTGAAAGCAGAAGATGAGGATATTGTTCTTACACCT  
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ATCTGCAGGCCTTGGTGTCAGTGTCAAAGGTAACCGGTCAAAAGAGAACC  
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TCTAAAGATGGAAGGCTTTCCGGTGAATGATCAACTGATAGCAATTAATGG  
AGAATCCCTGTTGGGCAAGACAAACCAAGATGCCCTGGAAAACCCCTAAGA  
GGTCTATGTCTACTTGAGGCCATAAACGAAGAATGATCCCCGCTTCC

&gt;Sequence 1330

ACCGTGTTTTGATAGTTGACTAACAACCTGACCTGTAATGGTCCTACACCCT  
CTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTCCTAAGTG  
TGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCT

Table 2

GAACACTCGAACTGGACTTCCTTTTCTGAATTGACCAGTCAAAGAGAAAAG  
GAAAAGAAAAAAATATGACCGG

>Sequence 1331

GGTACTGTTTGCATTAATAAATTAAGCTCCATAGGGTCTTCTCGTCTTG  
CTGTGTCATGCCCGCCTCTTACGGGCAGGTCAATTTACTGGTTAAAAGT  
AAGAGACAGCTGAACCCCCCGCTACCACTGTAATCATTATCCCAATGT  
TATGATTACATTGACAGATAACTCCAGTTTGTAACTGAACTGATGTT  
ATGGCCATAATATGTTGTTGATTGATGGCAAATGGTGATGTGTGAGTTAT  
GATCCTGTTTTTCTCAATGGTGGTGGAGGCCGGGAGCTTATATGTTTA  
TTTATGTATGAATGACGATAGTAAGAGATGGCATATAATCACCAGACTGA  
TCATATTGGATTCTTTGGGGAACGGAGCCGGAAGGGAGTAAACAGAGAAG  
CTTGACTCTTTATATATCTGTAACTGCGGCTTTTACAATGAGCATGGT  
ATTTTAATATTTTTAAATATCTGATTAAGAACTTATGAAAGAGCCGTNT  
TTTGAGGTTTAGTGCTAAAATAACACTTAAATGTTATTCTTAAACAATGC  
AACTAGTCTGGGTGAAAGAGACCATAAGGCGCTTAAACCAATCCATTGG  
ACTCAGGGAAAACCATGCTCCAGGGGGGAATGAAATCTAGTGGTCCTTT  
AGTAAGTCTTTAAAGACCCCTTCAAAAAATTTTTGTGTTCACTTTATAG  
TAACCCACACCTCTTCCCAAGATTGCCTAAAGGGGTGGGGATGGTCGGG  
CTTTATAATATTTCCGCAATGGAATTTGTGGATAACGTTTGGAACGGGAT  
AATCTTTGGG

>Sequence 1332

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TTGTTTATGGAGATGGTCTTTAAAGTCTAAATGTCCCCGTTTTATTTT  
GCCCCAATTGAAGAGGGGCTGAATCAGCTGGGAGGGAGGGGATGGTTGTC  
AGCCTACAGCTTTTAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTT  
CCATTTTATAGCAAAGAGAGAAAGGCGAAAAATATACAAACCTCGTACCTC  
GGCGCGCGACCAAGCTAAGGGG

>Sequence 1333

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TCACCCCAACCAGACTATAAATTCCTTTGTCAATTATTTAAATCCATGCAT  
GGAATCCCATAGACATCAACCAATCACCATAGACAAGCCTTAGAACAT  
GTATTACAGGAAAAATAGAGTAACACATACAATAACAGAGGAAGAAGC  
AATTGACATTAAAGTAGAAAAAAATTAACACTCTTGGAGTCTATAGAA  
AAATGTAAAGAGAAAGAGAATTGAAGATAATACGTCAACTTAGAAATATT  
TAGTTTGCCTGCTTCAACATCAATAATAAAGCATACTAGGAAAAAGTGGTC  
CTTTTAAAGCGATTGTTACAACCTCTGTAGGTGCTGGTTTTTGATAAATT  
TTCTTGGCCTGAGACTGAACTTTTATTACGCGATTGGCTGGGTAAAGAGA  
ATCAATTAAGAGATTAATGCATCGCGCCATAAACAGAAGACTGCCGTGGT  
GAGAGGTAACCTTTGTGACATTGTGCTAGGTTTTCATATGGGGTGTGTTAA  
GGGCTGCAATAAATGTTTAGCATTGTAG

>Sequence 1334

GGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAAGAAATGAA  
TATCTAATGTATAAACAACCTCAACTTAGATTTCCAAATCTTGCAATCA  
TTCACATTTGTGCTTCTTCTACACAGCTGTCATTTACATTCCTAGGCTT  
GTATTTCACTATGTAAATGGGAATTTAATCTTTATAAATGAGGCATTTA  
TGTAACAAAAAAGT

>Sequence 1335

ACAATAAACAGCCAAAGAAAAATAACCAGTTAGCACTTAAATAAGAATCT  
ACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATTTATATATT  
TTTTAAATGACTGAGCTACAGTACC

>Sequence 1336

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TTTTCTATCATGCCCCGTAGGATATTGCCTGGGACACCTGACAACAGA  
AAGCTAAGGTTTTCATCTAGGATTGGGAGTTACCCCAACACCAGCAGGA  
TGCAGGAAAAAGTAACTGACCGGATGGTTGCCCTCAATCTGTTGATTCTTC

Table 2

AGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAGATT  
ACGTATTGAACTCTACCAAGGCATCTGGTGAAGTACTAGAAAACCTCTGGAAGG  
TGGTCATAGCAGAAAATTGTTGGGAAAGTTCTCAGCATATTAAGAGAGAAA  
TTTTTATTTCTTCATGATCCACTCCTACAGGGAAAAATAAATGGCAAAT  
GAACCCATGTATGTCAGACTCTGTAATAAACATCAGTGAGATCACAGTGT  
CAAGAAATTTACAGCCTGAATTAAAGATACCCTTGCTCTCTTAAGAAAGAA  
ATAGAGTTAGAAAATTGTCCCTTGCCCCGACCACCTAAGGG

>Sequence 1337

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TGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTCTGAATGAACTGA  
GCATTTTCCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTATCTGCGAT  
ATAAGTTACTTTCTCCTTCTTGTCTATGTTGTTAACTTTGCACTTTCTT  
TTTAAACCTGCAGTAAATTTTAAATCTTTTCATTTCAGTGCTTCTGGTTT  
TCAAATCACATACAGAAAGAAATCTCCCGAGTCAGAGGGTGTGACCACAGT  
CTGTTCTGGTGCTTCTATGGCTTCATCTTTCACATTTGAATCTCTGACGT  
AGTTGGAATTTATTTCTGGGCTATAAGGACCCGACTTTATTTAAGAACAA  
AATTTTTTAAACAAATGTTAACTTAACTTCTTAAAGGCAGATTATTACT  
GGGACCATGTGTGACTNGCATGTCTATGTTTGCTTAGGAACATTTCTCCA  
GAAGAATTTGCAATGCTGAAAGGATGATGACTCAGATCGGGACATCTTCA  
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>Sequence 1338

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TAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAA  
ACATATCGGCTAAAGTTAAAGAGGTATTATTCTGTTTTTCCATAAATTGA  
ACATTGGAATAAAAAGTGCAACAGAGTTTTCTTAAATCATTGTTCTGCTCT  
TTAACAAAAAATATTGTAAAGGGTTATAAAAGGTTTATAAGAATCTTA  
CCTTATGGACAACTAACTAAACTGAATGGATTTGTAAAATGCTATTAA  
ACTAAATTAAGGCTGGACGTGGTGGCTCACACCTGAATTTTCAGCACTTTG  
GGAAGCCGAGGCAGGCCGATCACTCTGATGTTACGAGTTTGAGACTAGCC  
TGCCCTATGGTGAAACACTGTTCTCTAACAATATGCGAGCGTGTGCG  
GTCGCATGATGTCCAGCTGCTTGTAGGATGCGCTAGAGAATTGCCCTAA  
CTGTTATGCTTTGATCGTGTCTTCTN

>Sequence 1339

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AAAACCTCAAACAGTAAAGTCAATGTGATTATTGTGTTTCATTTCAGAAGATC  
TATGGGTCCCCTGCCCCGCCACACGTGTCTCCTGGTTCTCAACGAAGTGT  
GACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCAAAGT  
CTGCCTTCGTTGCTCCCATCTTCAGTGCAGCAGCAGAGCCCTGCAGCATT  
TCATCACACCCAAGTCCCTGCATATGGATCCCAACCACCTTGTCTTACTT  
GGTGGCACAGACCATTGTGATCACACCATTGTGGGTTTGCTTTTGGTACC  
TCGGGCGGGAGCACGCTAAAGGC

>Sequence 1340

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TATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTT  
TTGAATTTATTGTGTAATAATTGCTCAAAATAGTCAATTTAAACAAATTC  
CTGTTTTACTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCC  
TCCCGGT

>Sequence 1341

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ATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTA  
AATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCTT  
CTTAGTAAAAACTATTGTGACACTTCTTCTTTCTCCAAATATTTCGGCCT  
GGAAAGACCTAAATACAAATGCAGGGATTGAATCAAAATTCACACATTTTT  
TTCCTACGGAAACAACAACCTTTCTTGCTTATTTTAAACAAAACTAGTA  
TAGATT

Table 2

## &gt;Sequence 1342

CGTACTATAGGGAGTCGACCACGCGTCCGGTGGTACGTGGTGCGGGATCG  
AGATTGCGGGCTATGGCGCCGAAGGTTTTTCGTCAGTACTGGGATATCCC  
CGATGGCACCATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGCTGGCCTGACCGTCGCTGCCTACAGAGTCACACTCAATCCTCCG  
GGCACCTTCTTGAAGGAGTGGCTAACGTTGGACAATACACGTTCACTGC  
AGCTGCTGTCGGGGCCGTGTTTGGCCTCACCACTGCATCAGCGCCCATG  
TCCGCGAGAAGCCCGACGACCCCTGAACTACTTCTTCGTGGCCTGCGC  
CGAAGCCTGACTCTGGGAGCACGCACGCACAACACTACGGGATTGGCGCCGA  
CGCCTGCGTGTACTTTGGCATAGCGGCCTTCTGGTCAAGAATGGCCGGC  
TGGAGGGCTGGGAGGTGTTTGCAAAACCCAATGTGTGAGCCCTGTGCCTG  
CCGGGGACCTCAGCCTGCAAAATGCGTCCAGAAATAAAAACTGGGTCTGG  
GTGCGAAAAAAGGGCCGG

## &gt;Sequence 1343

CGTCTTATGGAGTCGACCCACGCGTCCGAATGCAGTGAAAGTGACACTGC  
CTGACCTTCAAGACTAGATCATCAAAGGTGCTACAGCTTCTGCTTTGGCT  
TACCTCTCTGTGCTGGGACACTCACCTTGGACCCAATCTCCACACTGT  
GAGAACTTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTCACTCAAC  
AGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAG  
TGAACCTCAAATGATTGCAGCTCCCAGCCTTTGAGTCTTCCAGTTGCGG  
TCCAGTCATTGAAACAGAGTCAAGCTGCCCCCGCTGTGATTTATCTGAA  
TTTCTGACCCACTGGGAGCATAATAAATGATTGTTTTATGTTNAAAAAAA  
AAAAAATAAATAAAAAAAGGGCCGG

## &gt;Sequence 1344

TGTAATAAGGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGG  
TGGGCATGATTCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAA  
AGGAGAGGAGGAGATGAGGTCAATTGTTTGTCAATTGAGTCTTCTCAGA  
ATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATGGCAGGGTC  
CTTGGGGTACCCCTTTTCTCTCAGCCCTCCCTGTGTGCGGCCTCTCCA  
CCTCTACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCAC  
TTCAGAGGTTTTGGGGTTCAGGGTGCTGAGTCTTCCCTTTGCTGTGCCCCA  
GGTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTT  
CCTTCTTTTCTTGGAACTGCCCCCTGTTCTTCACTGCCCCCATGC  
CTTAACTCATAGATTGTCCATCATGGGGGGCATGGGTGGAGCAAAAG  
GGCTTCTTAAACCCCGGAGGCCAAGGCAATTGGTAAAGGAAGCACTTGC  
CCCCCTTTCTGGCCCTTCTTAATCTTTAATAAAAAACCCGGCTTCTTAT  
TTTTTAAAAAAACCTTTTGTACAAAAAAGGGG  
CGCCCCCTTTGACTTATCTTAGAGAAAAAACATTTCCAACCTTCCCTT  
GAACCTTGAACCAATAAAGAAATCCATTTTGGTTGTAACCTGTTATTTG  
CACTTAATAAGGGTTCCAAAATAACAATATCCTTCCCAATTTTCCATATA  
AGCCATTTTTTACTGGCTCT

## &gt;Sequence 1345

ACGCCTTGAGAGCCTAGGACACGGCCCGATATTACTGTGCGTTTCACAAT  
CGGGCCCTTACTGGGGCCAGGGAGCCAGGTACCGTCTCCTCAGCCTT  
CACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCAAGAGCACCT  
CTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGAA  
CCGGTGACGGTGTGCTGGAACCTCAGGCGCCCTGACCAGCGGCGTGACAC  
CTTCCCGGCTTCTACAGGCCTTAGGACTTACTTCTTAACAGCGTGG  
TGACCGGGCCCTCCACAACCTTTGGGCACCCCAACCTACATTTTTCAGT  
GAATTACAGGCCATCAACCCCAAAGGGGCAAGAAAGTTGTGCCCCAATT  
TTTGACCAAGATGATACATGCCACCGGCCCCGACCCCTAACCTCTGGGG  
GGGCCCCGAGTCTTCTTTTCCCCAAA

## &gt;Sequence 1346

GGTACTAGATTGGGTGTGTGTTAAGAGAAAGACAGGAGTCAAAGATAG  
TTCCAAAACCTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG  
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT

Table 2

TCCATTTTGTACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA  
GGTATTAAATTGGCAGGACAAAATCATAGCTAGAGATAAAAATTTAGAGT  
TCACCAAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGG  
GATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACT  
TCAACATTGACAGGCTCAACAGAGGAGAATTCCTCAAGAGGATGAGGTTCC  
ACCTTTAGGACCGCCAAAGAAGACTTCCCAGACAAGTACCTGCCCGGGCG  
GCCGCTAAAGGG

>Sequence 1347

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT  
TATCTACCTAGAGTAATTTTGGCAATTTGCATTTTCTCAAAATAGTTTT  
TGAATTTATTGTGTAATAATTGCTCAAAATAGTCAATTTAAACAAATTTCC  
TGTTTTACTATTTCCCCCTTGTCATTTAAATTTTGTATTTGTGCTTCT  
CCCGCGT

>Sequence 1348

GGTACAAATTACTCTGTAATATTGCTTTCTATTAAGGGTGTGGTTTTT  
TTTTTGTGTGTTTTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTTGATGT  
TGGTTCAGCTTAGTGGTTCTCAACCCTGGAACAACCCGTAGACCCACCTG  
GGGAGCTCTTAAATTTATCAGTGCCTACCCACCTTCCAAGATTCTGATT  
TAAATCCTGTAGTGTGTTTAAAGGCACCCAGGTGATTGTAATGTACCTGC  
CCGGGCGGCCGCTAAAGGG

>Sequence 1349

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GTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGTAACATTAATTTTTTTTT  
TCCCCCCTAATGGGCACGGGGTTAATTCCTCAATTTTAAATTTTGGGA  
AAAAAAAAAAAAATACCATTTTTTAAAAACCCAGGGGGGGTTTTTTTTTA  
AAAAAACTTGTTAAACCTATTTTTTGGGGGGGGTTAAAAATTTTTTTTT  
TTGGGCCAAAAAAAATCCCCCTTTTTTCCCTTTTTTAAAAAACGGAAG  
TGGGGCCTGCTTTTTAATTCACCTTTTTAAAAAAATTCTGGAGGGTTTC  
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AGCCCTTTCCCAATTTTTTCCCTGCGGGGCAAAAGGTTTTTTAAAA  
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CAAACCGTTGTAGCCCCCTGTAAATTTGTTCCAAACCCAAAAAAGG  
TTTCTCCCCGATTTCTTTGGCGGAACCACTTAAGGGGTATATTCCCC  
AATCTGGGGGGTTTTATATAAAATTCAATTGTTAACACAATTTGGGAAA  
ATAGGAAATAATTG

>Sequence 1350

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AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCAA  
GGG

>Sequence 1351

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GGGGTCAGTAGGAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCA  
CAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGGAAAAG  
GCCCGGCATTGCTGGAACTCCTAATATTTAAAAAGATGATGGAACTTGA  
AATTTTATATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGA  
CTTTGAAGCCTCTCTGCTGGTCAAAACAAGATGTATCTGTAGGCTGGATT  
AGTCCACAGCTGGCCAGTTTGAAAACCTGAATCCTGCTAGCCTTAATTTAA  
ATTTTTTAAATTTAATTTGCTTTGATTCTGCACTCCTGCTCAAAAAA  
TCTTCAATGGCTCCCCACTGTCTGCAAGGTAAATTCAAACTTTGTCAAC  
AGTCTTCAAGCAACCCATGACTATATCCNGACCCCAACCATATTTCTA  
CCTTAATATCAGTCTCCATCTTTCCACCGCACCAGAAATGATAGTTGAAAT  
GTACCTNGGNCGCGACCACCTTAAGGC

Table 2

## &gt;Sequence 1352

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGTTATACTGTGG  
AAAGTTATTCAAATTTCAAATTTATTACAGTGTGAAAAGCACACAAC  
AGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAA  
AATAAAAAATCTAAGGTAAGTCAAACATACAACTCTACCTCTTGCTTTCT  
CCATTAGAATATACACATTGGAAATCTAAGTTCCAAACAGTTCCTCTCTA  
CTGAAGATAGTGAAAATTTAGTGCAAGCCCCCTAATTACCAATTTTTTGGG  
TGCTTACA

## &gt;Sequence 1353

ACATTGGTTTGATCTGGAAAGGCAGGACAACCCAAAGCGGGCTGGGGACA  
GTTCCAAGTTATAGGAGGTTTCCAATTGGCAGTTCGTTGAAAGAGTTTA  
TCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTAAAAATAAAG  
GGGTTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGC  
AGGCTTCAGAGAGAATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGG  
TCCCAGACTCCTAGTTAATTTCTAGTGGATCAGGAAAAAGACCTGGACA  
GGGAAGAGGG

## &gt;Sequence 1354

GGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTAATTTAAAAAAGGAATTTTT  
TTTTGAAAAATACAAAGATTAATAAAAAATTTTTTTTTAAAAATTTT  
TTAGGAAAGGGGGAAAAAATTAATAAAAAATTTTTTTTTTTTTT  
TTTTAAAAAATTTTATTTGGGGGGGGGTATAAAAAGAAAAATTTAA  
GAAATGGGG

## &gt;Sequence 1355

GGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAATG  
TCTGTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTAAAGAGGA  
TTTGGAAGTTGTATGGATTTTTGTTATCTTCACTTTACTGCATAGGAAA  
CAATCTACCTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTT  
TGGTTTTTTGTCAAGTTTAAATTTTCAGTTAACAAATGTAAACATGACA  
TTCCCTGCAGATATTGTTGTATACCAGTATGGTTTCTTCTTTCTTAA  
ATGTTTTTGGCCATCAAGTAGN

## &gt;Sequence 1356

CACTTTTTTTTTTTTTTTTTTTTGAGTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACCCCAA  
AAAAAATTTTTTACCCAAATTTCCCTTATCCCCCTTTCCCCCTT  
TTAAAAACCCCTTTCAGGTTTTTTTTTTAAACCCCTTCCCCCGTTAAGCCC  
CCTAAAACCTTTCCCTGGCCCCCTTTTTTTAAAAAAGCCCCCCCC  
CCCCCCCCAAAAAATTTTTTTTTTTTCCCAAAGGCCCTT

## &gt;Sequence 1357

ACAACACTTTAAAAAGTGAATTTTAAGCTATGTGAATATCTCAATAAAAA  
CATTTTTTAAATAAAAACAATTCCCAAAGGCCTGGAAATTCAGGAACATA  
ATTCAAAATAATTTATGGATCAAAAAATAATCATATAAAGATCTGAGAA  
CTACAATGTAAAAATATAGAAAAAAGTCATAACAATATTAGAAAAAAT  
TGAGCTGGATAACAAAAATAGTACC

## &gt;Sequence 1358

GGTACTTACATGGAAATAAGTGTTAAGAAAAGGA

## &gt;Sequence 1359

GGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAATCCCTTTATTAA  
AAATGTAAAAAGCCAAAAGCAAGATAGACGCAGATATGTGCCAAAATATG  
TATTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGT  
GAGAGGAGCCTTGACATCTCTTCTAACTATTTGATATCATTTGTATA  
CTAACGATGT

## &gt;Sequence 1360

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GTTTTATGAGTGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAGGT

Table 2

GCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTT  
AATATCATTTGTTCAATTCACCAGTTCAGAGGATTGGGGGTGATGGGCAC  
AACAGAAATGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACC  
TGACCAGTGAAGTGTGTTCTCAGTCGCCATGGAGCTCAGATTGGACTCC  
CAAAAAAAAAAAAAAAAAAGTGN

>Sequence 1361

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TGTCTCCCTAAAACCTTAGTCTCTGTCCTATTTACTTTGTTTATAAGACTG  
TGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCA  
ATGGACCCAGGCCTTTTCCAGTCAATCCATGTCCAACCCTTCATCTCCA  
GCGTGATCACTCAACTCTTCAACTTGCCTGCTTGCTGCAGGTTTAAACCA  
CACCACCATNCTGTGCTTTCCCCCTAATCGCCCATGATGCCCCCAGTAA  
AAATAAACTAAACCCACTTGAAGTGCC

>Sequence 1362

CGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTTA  
AAAATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGT  
ATTTATTGGCCATTTGCAATTTCTGCTGCTTATTGGCCATGTATTTATCTG  
CCATTTGCCGCTGCTGTGAAATGTCTTACATTATTTGCCCATTTTTCTA  
GTGATAAAACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTG  
TCAGAT

>Sequence 1363

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GTAAAAAGCATTGTAAATTGTATACTGCAGTGTGCTTACATGGCATTGG  
ACAGGACATAATGTACAACATAAAAGTGCAACTTGTCAACTTTACATAT  
CGATGAGTGAATCGGCAACTACGACCAATTTTTGTCTCAAGTCAAAATAC  
CAAGCACTATTGCACAGTCTACTGGATTTATGTATATATGACATATCTGG  
ATACTGCATGCACCAATTATTGGCGGCCTTTTAGCTAAGCTGTAGAGTG  
CTATTGTGCGACCGCTTAGTGATACTATTCTCTGGT

>Sequence 1364

GGTACTCAAACCTTTTCAGCCTACTACTGCACACCTAGGCTATGTGGTAT  
AGCTACCTTGTATATGTGGTCTGTCACTGACTAAAACCTTTGCTACACAGC  
GTATGACCCTACTATTACGCTTGAGAAGATGGAAATGCTGTCAATTTGCA  
ACAATATGGATGAACCTGGAGGACATTAAATTAAGTGAAATACGCCAGGC  
ACAGAACGACAACCAACACATAATCTCACTTATATGTAGAATCTAACAAA  
GCTGAACTCATAGATGCAGACTTAGATGATCCTTACCATGGGCTGTGAGG  
AGGATTATGAGGGAGGCAGAG

>Sequence 1365

GGTACTTTTTTTTTTTTTTTTTTTTTTACTTTATTTTACTTTAAGTTC  
CAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGCCA  
TGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACA  
TGCATTAGGTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTT  
CTATAGGTCAAAACAAATTTGGGAACCAGAATTGTCTACTGTCTTTATAT  
AAATGATCATTACGATTTGGGAGGAGGTTTTTTTTGGTCACATTTGATAT  
GATTAGTCACTAAAGCATGATCT

>Sequence 1366

ACCACAACGTTTCTACTCTATTGTGTAAGCTTTAAATACAAAATACCAC  
AACCCTCCCGGACTCCTCCATTATTTCAAGTAATACTGGCTGCCCTAGTT  
TTTCAGGATACATCATGCAAAATAAGTTCTTTTATTTTCAAATTAATTTA  
TTCTAAAGTATCTTTAATTTTCTTTTGGTTATACAGCTTATAGAATA  
AACAAGTCACAAGAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAA  
AGTTGTTTTACTCAATGTGAATTAATAATTTGCAAGTCAAAAAAATAAAA  
AAATTTTAAAAAGTAAAAAAA

>Sequence 1367

ACAATATATTATGAAGCATGACCACTTTATTTGAACTTAGCAATTGTA  
TTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTCAAGTAGT

Table 2

TTTATAATGATTTTTAAAAACATATCTATTTGGAATAAGATACAGCAAC  
AATCATTGCTATTGACTTGTTCAACCCCTTAGTTACACTGTATGATCAAC  
ATATAACAAGATACAGTGGAATGGCCCATACAGTATATTACTGTTGTGTG  
ATGATTGGCTTTGGAAGCAGTTTGATTTTGAAATGCTTTGATATTCTAAT  
TGACATGGAACAAG

>Sequence 1368

CCCTTAGCGGCCGCGGGCAGGTACATATGATGGGGCCAATGCACAATA  
CTTTTATCACAATCAACTTTTTCTTGATCCCTATTTCAATGAGCAGTC  
AGTCTCAAGAGGTTACTGCATTTCACTTAAGTACATTTGTACTTGT  
GATCACAACACGGGAATCTCTGTGGTATATACCTGGGGGCCATTCTAGGCT  
CTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGGGGGGAGGATG  
GGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATNTATAGAATTTTGGGA  
AATCTATTTTGTGTTTGTTCGTTTTTTTAACTGGTCATTCCTT

>Sequence 1369

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CATCTTTCGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCTTA  
CATCTCCAGAAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCAT  
TGTTATTAGCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCA  
CTGCATATGCATTAACAGCTCTGATTAGTCCACTTAAAAACCATTTGTTCC  
CGTCATGCAGAACTCCAATGCCAAGCCCCACAACCCAGCCAGTAGGTT  
AGCAAGCTCCCTGAAGCAAGGTAAACATGTTG

>Sequence 1370

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TTTTACCCCGGAAAAAAGGCCCAAAAAAAGGGGCTTTTATGGCA  
CAATAAAAAAACCAAGGGGGGTCTAAAGGGTAATCGGGCATTTTTTTTG  
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>Sequence 1372

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>Sequence 1373

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>Sequence 1374

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Table 2

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>Sequence 1375

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>Sequence 1376

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>Sequence 1378

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Table 2

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>Sequence 1381

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>Sequence 1382

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Table 2

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Table 2

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Table 2

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Table 2

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>Sequence 1399

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>Sequence 1401

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Table 2

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>Sequence 1403  
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CCCCAAAAAGACACTACACCAATGTTATAAAGTCTCTGCCCGGCAGG  
CCGCTCGAAAGGGCT  
>Sequence 1404  
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ACTTCAACATAAGTAATTTGTCTCTTTGTCTTTAGTTTTGTGATTTT  
AAGGACATAATATCTATTACTTTAAAAGTATTGAAAGCTGTATGTATATT  
CTTCAACTAGCCACCTTATTTCTGTTCTAGAGTTTGAATTTCTTAACCTC  
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CC  
>Sequence 1405  
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>Sequence 1406  
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CAGAGTAGACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
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TATCAGGCACTGAGTGGGATGTGGGTGATGCTCAGTACTGGCTAGAGC  
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Table 2

AGCN

&gt;Sequence 1408

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AGTTAATTACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTG  
TGTAATAATGTATTATTACATAAAATGTGTTTTGAATCAATGCAGTTTGG  
GGATGAATATAATTAATAATATGTTTAATAACTTAGAATTCAACTAATAAA  
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ACTGAGTGGTAGATCAGT

&gt;Sequence 1409

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GCTTGTTAATGCAGTGAGGATTGTAGCACTGTCCACTGAGTCTCTGTGCA  
ACAACCTAGTGGTGTGGCAGGGGTTCCGGTGTCTGGCTCTGATCTTGGA  
CGCTGGATAGTCGTCTGAGTATCTTCAGTGCCCAAGGCGACGGCTTTGGT  
TTGGGTACAGGATGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTATAGG  
AGAGGATACTTATTTGCTGCTGCATGATCAACACTGGTAGATTATGGTTT  
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&gt;Sequence 1410

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CTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGT  
AGACCACTCCTTCTGAGGGAGAATCCACCCACCTTCTCCTAGCTTCTG  
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&gt;Sequence 1411

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&gt;Sequence 1412

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GGGTAGGAAGGCCCCAGAAAGAAAAGGAAAAATTTAAATCAAAGCCCCC  
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GCCCCCCCCAAGGCCCAAGT

&gt;Sequence 1413

ACTT  
TTT  
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AGGCCCCGAAATGAACCAAAAAAATTTTTTTTTTTTTTTTACCACCA  
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Table 2

AATCCCCCTCCACAGACACACATTGGACAAAAATAGAAAAAACTGTTTC  
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ATTGCGGTAGCCCAACCCGACCTTTTTAAAAAGAGAAACACTATTCTGCC  
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GGCCCCCTTCN

>Sequence 1414

GGTACGCGGGTCAATTA

>Sequence 1415

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TTCAACCCATCTGACTCATCTGTTCCCTCCTCCAGACTCTTCTTGATCTT  
TATTTTTTTAATTTACCAGAGAAGAGCAAGCACGTGAGCAGTGAATAACT  
TGCAAGGATGCAGACTTTTTTATTTGCGATGCTACTTTTATAAAAAACA  
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>Sequence 1416

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TTGTGAGACTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAG  
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GTGAATTN

>Sequence 1417

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>Sequence 1418

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CAGGAGGGAGCAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCA  
GACCTCATTAACAGGATTTGGTCACGGCCCACTGGATAGTGGGGAAGCC  
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Table 2

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>Sequence 1419

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CATAATTTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGG  
GGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGC  
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>Sequence 1420

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>Sequence 1421

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CCCCATCTTGGAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATG  
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>Sequence 1422

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CCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGAC  
TGGGAGTCAAGAACTTGGGGTTTCACTCCAGCTCTGCCCTGTCAATTTT  
CCTCACCTGTAAACTGGATCAGAAATCTTACAAAAACAAAAACAAAAA  
ACCTCTTCAGTATTTCCCTCAAACAGGATCCTCCTCATCTGTATTTAT  
ATTTAAAAAATAAAAAACAGAAAAGAAAAAGAACAGCATGACATCATTAG  
GTGTGTGTACC

>Sequence 1423

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CAGAGGTCAATTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCG  
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TCAACTGAAGTAATCCGGAGCTGAAACTGAATTGGGCCGATTTTCAAATG  
AATCACAAGTCAATGTAAACACAAACAAAGTCGATTATTTACACACT  
CACAAGCCCTCTAAAAATGTGCCCAAGAAGCATTTACCTTTGTTTTGGC  
CATTCTGAAGATTTACATTTTATTTTATAGATAGCTTAACATTTTATTGA

Table 2

GGGGTTCTCTACATGCGGTATGGTTTGTCTTGGCCCGAACACCCTAGGC  
GAT

>Sequence 1424

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AAAAAAAACCTAAAAATCATTTAAAAAATTTTAAAAACAAAATTGTTAA  
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CAAAAAAACTCTATCCAAAAATTTAAATTTTAAAAAAAATTTAAAAA  
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CCATTTTATACAAAATAAGTTTTTTGTTAAAAACATAACTTGA ACTAAAA  
AAAACCCTGGAATATTTAAAAATAAAAAAATTTAAAGTTCTCAAATAAATC  
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ACACAACTAAAGGCAAAAATTCAAAAAAATATCGGCAGTAACTAAAGAA  
GACCAAGTCTGAAAAAAAATCGGAAAAAAAATCAATTCC  
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ACAATAATGTTCCCTAACCAAAA

>Sequence 1425

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AATTGTTTTCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTCTTT  
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CAAAGTGTTAGGATTACAGGCGTGAGCAGTTTTCTTTTGGTATTGCTTTA  
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CCTCCCAATACCTGGGATTACAGGTATGCGCCACCTTGCACAGCTAATTT  
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TGATTTCCAACCTTC

>Sequence 1426

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ACCCCGCGT

>Sequence 1427

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AAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACA  
AACTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTC  
TCTGGCTTCGGCCAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATC  
CCGTCAGGATCAGGAATGATGGCAGAGTGGCCCTGTTGGCTTTGTAGCTA  
AATTGTGCTCAGCCAGAGAAGAACCACGACCAACAGAGCCCTAAACTGAA  
GTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAACTAGTACC

>Sequence 1428

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AGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAAATGGAGC  
CATGAGAGATGGTGGTTTTTAAAGTTGATTTGATGTTGGATGTAGTAAGT  
CCTGTGGGAGAGAATTTTTTAAATAAAAAATACTGTTTAAAGTGTCTC  
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CCAGCTACACTTTCCAGTTTGAAATAATGAACAAATCCTTTTGCTGACA

**Table 2**

GACCAAACCTTAGTTCCTGTGGGCAAATGAGGGGTTTTTCCCCCAACA  
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CCCTTCTTAAACCCAAACAGCCTAAATGATTGGATAAATGTTCCACAAGA  
TCAAAGAGCCACCCAGGAATTTACAGCTGGACTTCATTACTTGATTACT  
TTGCAAAAATAGAAGCCAAAGCTTGACTTAACTGGTAATAGACTTAAAAAT  
TTGAGTTTGCTCTTGGTGGGGTGCTTATCCCCTTTTTACATGACAGAAGT  
GTTGGAGTAATTTTATGTGGCCTGGGTGGATGGCTTTTTTCTCACTA  
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Table 3

&gt;1.1

GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAA  
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CTGTATTTCTTTCTAGTTTTTCCCTACCATTCTTTAATCGGAGTATCCA  
AGCCCAATCACCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTT  
CATGTTTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCT  
GATCCCACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAA  
TTTTCCCAGCCATAATGATCTTTTAACTCTTTGAGCTTTTACTATTT  
ATACTCTTTACCTAACCACTAAATGGTTTTT

&gt;2.1

GGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATC  
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AACTATGATCCTGCTTTACATCCTTTTGAGGTCCACGAGAATATATAAG  
AGCTTTAAATGCTACCAAACTGGAACGAGTATTTGAAAACCATTCCTTG  
CTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCA  
GAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAAT  
TTGGAATCTAACTCAGCGGAATTGTATCCGT

&gt;3.1

GGAGAGGAGTCCTTTACTTAGAGTCAAGCTGAAGGAGCATCACAACCCCA  
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GATAGGATGAAATAGTAATTTATTGATTACTATATCTACTATATGTCCGT  
AAGATAGCAGGGTCTTTATACTCGGAATCTCATTTGATCCTCATAGTTTT  
TATTGGTTATTATTATCCTCATTTTACAGATACAGAACTGAGGCTTCAG  
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GACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAA  
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GGCAGGGGGAA

&gt;4.1

GAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTCGTAGCTAC  
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TCTTGTA

&gt;4.2

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AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC  
CAGA

&gt;5.1

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TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAG  
TCAGCATGTCTAACCCAGAGCCAGGCTGTGCTTTTTTGT

&gt;6.1

ACCTATGACCATCTTACATTATTTTTATGGGTGGGGGGCATTGGCTGTGG  
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TGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTACACGCTGGT  
TTGTGGGCGGAGGGGCGAGGTTGGTGCGTGGGGTGTCCGGGCACTGGCTGT  
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CAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTG  
GCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCTCTATAGTA  
GTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTCCTCAGCCT  
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&gt;7.1

CGCGGTGGCGGCCAGGTACGGATCAATTCCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA

Table 3

GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAAGGATGTAAGCAGGATCATAGTTTCT  
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TCGGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>8.1

GCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
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CTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCT  
ACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGG  
TCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTA  
CTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACT  
CAGCGGAATTGTATCCGT

>9.1

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ATCAGGAGCCACAAATGCTTGGCTGAAGTGCTACTGCTCTTTCATCCTGG  
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>10.1

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ACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAGATCACAGCAATTAGG  
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TGAGCTTTACTAAATCGGAAAAAGAAATCTCAATTATAGAACATTTAGTT  
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>11.1

GCTGGCCTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGC  
CGTGATGTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTC  
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>12.1

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ATCCATTTTTTTCTGGGAAGAGAGTCAGTT

>13.1

ATTGCGTCCGAGGTACCAGGTGTCATTCTGCAGCAGGATTTAACAGATG  
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GGAGCCAGTTTTGTGGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAA  
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>14.1

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GCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTGGAGGGACATCAGCTGG  
GAGTGGTGTCTGTGGACATCAGCCACACCCTGCCATTGCTGCATCCAGC  
TCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAATGGCAAACAGAT  
AAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTC  
CTGATTTCCAGTATCTGGCCACAGGAACCTCATGTCTGGGAAAGTGAACATT  
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>15.1

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Table 3

ACAAACAAGTCTGTGTCTGTGTGGAGTGTTGCAGGACGAGTGGAATGAC  
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AGGGTCAGAAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGTCT  
GCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAG  
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>16.1  
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>17.1  
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>18.1  
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>19.1  
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CACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCAGTGGTTTTTTCCC  
CTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCG  
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>20.1  
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>22.1  
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GCAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCACTCTGGCTG  
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GGGTG  
>23.1

Table 3

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GGT  
>24.1  
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AACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCATGGT  
>25.1  
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TTTTCATTTCTCCCTCTTTCCCCACAGCAGTGCATGTCCACCATACCACC  
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>26.1  
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GCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC  
>27.1  
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GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
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TCCGGCTCAGCATCTTCACCTTTATCTCGGTTGCTCTTC  
>28.1  
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CA  
>28.2  
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CAGA  
>29.1  
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GAACATGCATTTTTCTTCTACT  
>29.2  
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>30.1  
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CA  
>30.2

Table 3

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>31.1

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GAACATGCATTTTTCTTCTACT

>31.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA

>32.1

GGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGG  
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GCACCCTGGGCCTTTCTTCTCTGTCAAAGGCCTTAAGACAGGTTTACCC  
TGTAGCCAGGTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGGGAGAAGT  
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CAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGACTCTCTCAGG  
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GCT

>33.1

CGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGA  
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TTACCCTGTAGCCAGGCTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGG  
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ACGGGGCCACATCCTATGCCAATCCCAAGGCAGGGAGGCAGGGAAGTGG  
CTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAA  
GCAAAGTCAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGAC

>34.1

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CCCCACCCCCCATTAATAATCATTAAACATTCTATCCAAATAGGATGC  
CCTTCTGTGGAAGTGCATATTTGGAACCATACTGCCTGTTTAACTTATG  
CACTCCACTGGGAAGTTACAGTATCTGTTTCCACAATACTTGCAATCAT  
ATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAGGACCTACCTACAA  
GGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTT  
AAAATAATTTTTGGCTACACCTGGGGACACTTCCAGGACAACAATGACT  
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ACACTACA

>35.1

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GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCT  
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>36.1

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Table 3

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>37.1

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GATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTT  
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GACT

>38.1

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TGTCAGGTGAGTTGA

>39.1

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TTTCAACAGGATTTTTCAGGAGTGGGGATGATCTTCAAATTATCCACAA  
CTTAATTATTTAATATTTTGATAGTCAATTACCTAAGACACGGCATCGTC  
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>40.1

CTCCCCGCGGTGGCGGCCGAGGTACAGTTTAGAAAACGTGTTGGGGCTGAGT  
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>41.1

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GT

>42.1

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CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
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>43.1

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Table 3

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>44.1  
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CTTTTCTGA  
>46.1  
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>47.1  
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>47.2  
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>48.1  
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>49.1  
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>50.1  
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GCTTTAAATGCTACCAAAGTGAACGAGTATTTGCAAAACCATTCCTTGC  
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>51.1  
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CGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGAGAAGGAGAGAGAT  
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>52.1  
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Table 3

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TGACTTTC

&gt;53.1

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CTACCAAACCTGGAACGAGTATTTGCAAACCATTCCTTGCTTCGCTGGAT  
GGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGC  
TACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAA  
CTCAGCGGAAATGTATCCGT

&gt;54.1

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&gt;56.1

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CTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAACCATTCCTTGCT  
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&gt;58.1

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TTGTGAAGCAAATTAATTACACAACCAATATTGCCACATTCCTTGAGGTC  
TATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTT  
TCAAAGAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAG  
GAAGATTAACATATTTTTATCCATTTCTTATGGTGGGAAATTAACATG  
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TCACTCCTGAGTAGTATGGGGTAGAAAATGAGTGGAAATCAGTTTGGCCA  
CTATTTCCGAGTCTTTTGCACTGCAATACTTTCATCAATATTTACAATAT  
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&gt;59.1

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CATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCCTCCTCCCT  
AATTTTCTGAATCAGAAATTACGGAGGT

&gt;59.2

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&gt;59.3

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Table 3

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>60.1  
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>61.1  
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>62.1  
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>65.1  
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>67.1  
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>68.1  
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Table 3

>69.1  
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TGGTGACGAGTCAGGGAATTCGACACAGGGACAGCTCTGTCAAATTA  
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>70.1  
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>71.1  
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>72.1  
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>73.1  
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>74.1  
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>75.1  
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AGGCTGA

>76.1  
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Table 3

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>77.1  
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>79.1  
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>79.2  
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>85.1  
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Table 3

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&gt;86.1

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&gt;87.1

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&gt;87.2

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&gt;88.1

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GAAGGGTTGGGCGGAAAACCCCGACCAGGGAAC

&gt;88.2

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&gt;89.1

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&gt;90.1

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CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA  
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&gt;91.1

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&gt;94.1

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Table 3

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>95.1  
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>100.1  
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>102.1  
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Table 3

GCTGAAGATTTTAGATTCTACCTATTAGAAATGAATATTCAGTGAAGTT  
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&gt;103.1

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&gt;104.1

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CAAAA

&gt;105.1

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&gt;106.1

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&gt;107.1

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&gt;108.1

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&gt;109.1

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Table 3

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>110.1  
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GTTTAACTCTATCAGGGT  
>116.1  
CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGT  
CGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCG  
CGGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGG  
CGAGACGATGGTCACTTCGGAACGCGCGCGCGCATCTGCTCGACCACGT  
TGTAGCGCACGCTGTGACATCCAGCAGCGGCACGCCCGCTACGACGCG  
GTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGCGGTGGT

Table 3

CCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTCTTCGACCATCGGGCTG  
TAGCCGAG

>117.1

TGAGCTCACCGCGGTGGCGGCCGAGGTAATGGAGCCACTCAGGAC  
TGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAG  
TTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCATTGA  
TAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAACCATAGCAA  
ATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAAATTTTCTCAT  
AGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAACCTATC  
TCTTGAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTG  
AAACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGCATGAA  
AAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGACA

>118.1

GTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGAT  
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GCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATCAGGATGAAAG  
AGGTGATTGAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTG  
AGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGA  
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CCCCTCAAGATGTTAGATCAGCACAGTGGGATCAGAAGCCCCTAATGATG  
ATGAAGA

>119.1

CGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCTGGC  
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GGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGTGCTGTGCCA  
TTGTGTATGTCTGCAGATTTCCCAGGGTTGGGATGGGTTTCATCCTACAA  
CGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACAACGTAACCT  
TGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCT  
TATTTTGGCATGGGGAAAAATGGCAGTGAGCTGGCATCATGATGAAAATCT  
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>120.1

CGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATGAGACCGGG  
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>121.1

CCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTT  
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TGTATGGAAGTGAGACTTTAAGTAATAGTTACTGCTGAGAGAAATAGAA  
GACGTGACAACGTTTGCTTTCCCATTCAGTAGTCAGCGGTTGAATGGAAT  
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TCTCTCCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTC  
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GAATCTGCTG

>122.1

ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAAC  
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TTGCAGAAATGGCTGTGCTCCTGAAATATTTCTGTGAAGAAAATTGTTAC  
AATCCCATTACATCACTGGCTTTTATTATTAATGAATGTTGGCTGGAA  
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>123.1

CGGGTGGCGGCCGCGGCCGAGGTACGCGGGTGTGCAACTGCAAACCACT

Table 3

AACCTGCTATGGC

&gt;123.2

AGACTCCAAACAGTAAGGTCAGAATTTATCAAGACATTACATAGGAGTAA  
GGGCACAGCCAGGGGTGGTGGGG

&gt;123.3

GGAAGGACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTT  
GGCCCAACTACTGTTCTCACCTAATCCCAGGCCAGCGTGTGAGGAGGCC  
AAATGACAC

&gt;124.1

CTCCACCGCGGTGGCGGCCGAGAAATGTCGCCAAACTGCCGTCTTCCCTC  
CTCGGCCGCTGCGACAAACACCCCAAAAATGGCGGCAGCGCCGTCGCCC  
TAGAATCCCCGAGTCGCCTCTCCCCGCGT

&gt;125.1

ACAGACTTTCATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCT  
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TCCCTGCATTCTTGAGAGGGGAGACAGCAACCAATAAACAATTACAAAAA  
AGTATGTAACATAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAG  
AAGTGGAAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAGGGCCAGCATGTAAGGA  
ACAGAGAATAAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAG  
TCATTAAAGAACATGATCATCTTTCAAGAACTAACCCTTGAGATCAGAGT  
AGTTTGATTATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGC  
CAGATCACGTAGAGCTCTCTA

&gt;126.1

AGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT  
TCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCA  
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&gt;127.1

GGTACTGAAAGTGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATG  
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TTTCCAGAGACAAGAAAGCTCTCAACCTGTAAGAATTCCTGGGACATGA  
CTGAGAGCAATGAGAACTCCAGGCAGAAAGGTTAGCAGATATAGTGTAGAG  
CATAACAGATATACTATAGTTTATAAAGTGGTGGCTTAGCTGTAAATC  
ACAAAATAGCACTGGAATTATACTAGTGATCATAGCACATAGTCCAAGAA  
GAAAAAATTTTGATCTTGTCTTAACTTTGTGGAGCCAGTGGTGAAATG  
AGTCACACAAAGATGCAACAATG

&gt;127.2

ATGAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAAT  
ATTACAATAAAAAATCAAGACACATGAAGGAGCATACCT

&gt;128.1

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GAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCA  
CGGTCTCATTCCACAGCCTGGTAGCTCGGT

&gt;129.1

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CCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCCTCAGCTGATGAAC  
TCTTCATATGCCTCCTTTGGGTGTGAGTGGAAATGTCACTTCTTTCTAG  
AAGCTTCTCTGGCTCTCCAGCCTGGCCAGGGCTCCAGCTATGAGCTTC  
CATAACACCCCTAGTTTCCCTCACATTGCCCTCATAGTATATGGAATTTG  
TTCATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGA  
GCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATG  
CCTGGGCCAGAGTAGGTGC

&gt;131.1

TGAGCTCACCGCGGTGGCGGCCGCCCGGCAGGTACCTATCTGCAGAACGG

Table 3

TCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAAT  
TTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAATTAGA  
AGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAATTTGAC  
TGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTAGTCTGT  
AGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTAT  
ATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTG  
GAGTGAGTTATTATTCTGGTAATACAATTCTCTGCCAGCCAGTTGCTG  
CATCAAAACAGTTCTGATACACACACCTAAAGTCACCACTTCCTCATTCT  
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GTGAAGGGTTGGCTCACCCAAGA  
>132.1  
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CTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTGCGCTTGCCGGTCCG  
CTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGCTGGACGCGAGGG  
TCAGGTTGCCCTGAAGCAGCCCCCTTGTCTGGGTGACATCACCGCGC  
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GAAGGAGAACGCGCCTTCCTGAGCTTGCCCCGAAAGTTTGCCATCC  
>133.1  
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AAACCCCAAAAGTATTAACCTTTAAATACATAAACTCAATAGAAATAATT  
TAACTGCCCTTCTCTTACAAGAGGCAATCAGAAGGCAGGACTATAGTTTT  
CTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCATAG  
AAACAATTCCATAGTTTTAATTTCTCTCTCTATCTCT  
>134.1  
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GGAGTGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTC  
CCTTTCATAAAGACTTGATCGTCTTATTTATCTGGATTGGCCATACACAG  
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>135.1  
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GAGCATGTTACTTGTCTCTTGGGATCCGAATGACAACTCCACCAGATG  
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>136.1  
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ACCCCGCGT  
>137.1  
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GTCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACAT  
TCAGTGAATGAGAAAAATGCTGCTTACTATGCTTTAGCAATAGTGCAT  
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CCCCAACACTCCAGT  
>138.1

Table 3

CAGTTTGCATACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTA  
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ATTACAAATAAATATTCCACAAATTTGGAAAGTTATTAGAGGAAGAATTT  
TTTTCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAAAA  
TTACATGGAGGAAAGAAAAATAGGAAAAATAAGTCACAGAAAAAGAAAAATCA  
AAACAAA

&gt;139.1

TTGGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCAT  
CCCAAACTCTTTAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAA  
ACTTGTCTATCACCAGCCTCTTCTCTGCATTCTTTCCCTCCTTGCTAT  
GCTAAAACTTGGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGG  
GGGCTCCTCAAGGGAAGGT

&gt;140.1

TCACCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGA  
CAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTC  
ATTCCACAGCCTGGTAGCTCGGT

&gt;141.1

TGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACTCTTTAAAC  
TCTTGACCTCTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAG  
CCCCTTCTCTGCATTCTTTCCCCCTTGTTATGCTAAAACTTGGATGG  
CCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAGGGGAA  
GGT

&gt;144.1

CTCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTGGAAGTGACA  
GGTATTAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCAC  
TGGGTACTTTGATTACCCAAACCAGGCACTTTCCTAACTCCCACTTC  
TTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCCGGT

&gt;145.1

ACCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTCGTGCTAAG  
ATGCCGTTACGGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTT  
CACA

&gt;146.1

CCCGCGGTGGCGGCCGTTCTGCTTAGCCAGTTTATTCTTTATTTTTTTAC  
TGGAGTCATTGCCAGTGATGGAACGGTGTTTGCTTCTCTTCAGTCAAG  
ATCTGCACAAAGTATAGCATTAGGTGGTATTTATTGTTTATATTATGAGT  
TCTACATTCATCTTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA  
GTTCAAGGCATTGGATTCTGCTTGATTCTTTTAAATTCATTGTTTTGA  
CCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCAC  
CACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCACTGGTCCCAAGT  
TAACAGTGGATATACTTCCTGCA

&gt;147.1

ACCCAAGGTGGGCATTTTTTTAAAAAACCCATGGAAATAAATGCTACTTC  
TTGTTAGTGTTGTTTAAAAATAAACAAAGAAAATGCAACAAAACAAAAA  
CCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCT  
TAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAATA  
AGCCCAATTCTTTAAACTATCTGGAATTAGGTCAAATTTATCTAATTTT  
TTTCTGATTTAATTTATGGATTACGTAATCCAATAGTTGGCAACATTATAA  
AACCTAACTTTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGG  
ACATAACCA

&gt;148.1

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTG  
GGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGC  
TGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTA  
CAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAGTGTCTGTTCTGT  
GCTGAGTTTCAGGGGCCTTCAGCTTGCGGGAAATCCCGAAGATGGCCAAA

Table 3

GACAACTGAACTGTTGCTTCCAGGGCCTGCTGATTCTTGAAATGT  
GATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAGTGCA  
>149.1  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCT  
TCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATA  
ACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGACAAGTTTC  
ATGTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATG  
GAAAGAAATCAAGAATTGGG  
>150.1  
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AGCCTGGTAGCTCGGT  
>151.1  
CCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTA  
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TGAATCTTATTCTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAA  
ACGTATCTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACG  
AAACCTTTTTAAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGA  
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GCAATGAAATTCAGGAATTGGACAATGACCTCTTGGCATATGAAAGAATT  
AAAAGAGGGC  
>152.1  
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ATTCTCCTGAGAATGATATTCCTATGGAGATCACACGGCAGAACCCACAG  
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CTCTGAAGATCGACCTACTGGATTAGTTGT  
>153.1  
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TGCCTCCATCACGAAAGCACATATCATCTGTCCCTTTGGATTTACTTCC  
AGGACGCGTGTGCTCCCGAGCGTGTGTTGCCTTATGGTGCCGGCAGAGCC  
TCAGCTATCTGCGCTGGGAAGTCGGATGTCCTTGGAGAGAATTTGGAATGC  
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CCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAG  
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GAAGTAATGGGATCACATATATATGTAAG  
>154.1  
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GCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGGCTGCGGCAATCG  
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>155.1  
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CTTGAAGAGATCTCAGTCTCGCTCCCTGTTGATCTCATGGAGTGGGGA  
ATGGGAATTGAACCAGAACTGGAAATTTAGGAAAGTTTGTAACTA  
CTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGA  
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ACC  
>156.1

Table 3

ACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCTTGGCTTCCTATAG  
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ACAATGTTCTTGTGTTCTTGGGTTTCTTAATGATTTCTGAATCATCAT  
TATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTTTTCTCCTC  
AGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCCTTG  
CCTTTTTTACTGTCCTTTCCTTGTCTTACTTCAGGT  
>157.1  
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CCGAGTCGCCTCTCCCCGCGT  
>158.1  
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CCAGGCTGGGGGTGCACGGATCTCACTGGGGCTAGTTGGTCGGATGGGAA  
AGCCCCATGGGTCCACCAGGATGAGGTGTTAACTCTATCAGGGT  
>159.1  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
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ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTATTCTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
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>160.1  
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AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTATTCTGG  
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GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCTAG  
TGGAAAGAGGCAAATTTCTACGT  
>161.1  
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ACCTTTCTGGATGATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCAT  
TTATATTGGACTGACTGATATGGCTTTCTATACCAAAGGTAAATGCTGAA  
TGAGAAAATCCTGACTCTTGCAAGTATCTATATACCAAGAAGTTGACCTC  
ATCACTGCTTATACTCATCTTTATCCCACTTAAACCATGAGGTCACACC  
ACAGGATATAACCCATTGGCAGTGCATTGATGTGGGGATGTGCAACTGAA  
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GGCCTTCAACGCCGCTTCCCCCTTCCGGGAATCCCCGCG  
>162.1  
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ACGTAGAAATTTGCCCTTTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTTGTGTTGTTGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
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Table 3

>163.1  
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>163.2  
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>164.1  
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AGTATTTAGCCAGAGGGTTGTGGTGAAGTGT

>165.1  
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ACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGA  
GGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTG  
CCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCT  
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>166.1  
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T

>167.1  
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>167.2  
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C

>167.3  
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CTAAGG

>168.1  
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GGTACCTCGGCCGCTCTAGAAC

>169.1  
GGCCGCCCCGGGCAGGTACTTCCACTATTATTGAATGTATTCTGTATTATA  
ATTGTATATTTGATTGCCTATCTCCCCTCACTGCATTATACATTTTCAT  
GGGTGAGCCAGTGTCTTTTCACTCTATTTCACTGCCCCTGCACATTTTCT  
GGCACATAGTAAGCAT

>169.2  
AAAATACTAAATCCGAAATGCTCATAAAATTCAAAGCTTTTTTGAGGAC  
CTGACCTCGTGCCTCAAAGGAAATGCTCATT

>170.1  
TGGCGGCCGAGGTACTTAGCTGTGTTTTTATTCAAAGTCTACATTTTATG  
TAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTACCATACA  
AATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAA  
TCCAGGGAGAAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTG  
ATTGAAGGTTACCATCATCTCACCAACTTTTGGGCCATAATTCACCCA  
ACCTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGACTTCTTT  
ATTTTGTAAAGGGGTAACACAGAGTGCCCTTATGAAGGAGTTGGAGAT  
CCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAAACAATG  
AGGAACATTTTCATTTGACCCAACATCTTTAGGAGCATAAATGTTGACAC  
TAAGTTATCCCTTTGTGCTAAAATGGACAGTATTGGCAAAATGATACCA

Table 3

CAACTTCTTATTCTCTGGCTCTATATTGCTTTGGAACACTTAAACATCA  
>171.1  
GGCGGCCGCCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAAT  
GGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTC  
GCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCCAAGCAGTCTGGGAAGT  
GTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCC  
GGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTGTACCTCGGCCG  
TCGAGCGGCCGCCCGGGCAGGTACAACTTTTATACAACCTCAGGAGATTAA  
AAAAAATCTCCACAAGAAGAAGCAACTCAGCAGGCCCTGGCATTAAAC  
ATTTCCAGAATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATA  
TTTAAGTTACCAAGATTTCCCTCCAATATGTGCCTTTCTCAAACCAAT  
GCAACTAATTCATTGCTAATACTGGGGCATGAATTTTTGGCAAATGTTTA  
TGGTTTTACTTTCTTCATTAATCAAAAAATTTTTTAAAGTGCTACCAAGC  
AGCAAAACATGTCGCATCAGTTCTCTGCTCATGGCAGAAGTGCCCACTGT  
GAAA  
>172.1  
GCGGCCGGGTACAGATTTAAGGTTGATGGACTCAGGGTAAGGATAGCTAC  
AGCTGTGTGGGGCTGAAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGG  
CTCTGTTTTCTATTGTGACACACTGAGTTAATAAAGCACTTACTGAGGGAG  
CCAGAGCCCAACTCTAAATGTGCTGTAGAAAAAGGGCCAAGTCATTGAC  
TGCACTACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGCCATCT  
GGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTAT  
CATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCCCAGGATG  
GAATACAGTCTGAGAAAGGCCTGGGCAAAGGGAGGCAGAGGGACTGAAGG  
AAGCAGGTCAAGGAAGATACAC  
>173.1  
TGGCGGCCGAGTACGCGGGATAGGTGGAACAACTGCCATTCAACAAG  
TCAAGGAACCCAGGGCCAGCTGGAAGTGTGGAGCACACATGCTGTGGAGC  
ACACATGCTGTGGAGATTGCAGTGTGCTGAGGTTTGTGTAGTAGTGGA  
GATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAGACTGCATGGGGGC  
ATAAATGAGAAATGCTGTAGCATCTAGTCTACTTGAAGGAAGTGGA  
CATAAGGAGAGACAAAAACAGGTTTGTGCCATAAAGTATTTTTTCAAAGA  
CACCAAGATGTGGGTAAATGAAATTATTAGTTCAC  
>174.1  
GGTGGCCGAGCGGCCGCCCGGGCAGGTACCACTAGGGTGTTGTTAAAGGA  
CTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAATGGAATGAAAT  
TTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACATCCACTATGGT  
TTAAATCCATGAGGTCACAATGATACTTAATTTTTTATTATTCTGAAAC  
CAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTCTCTCAA  
TGAAATATATCTTAAGAGAACCGAA  
>175.1  
AGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTG  
TGGACGTAAAGAAGGGAATGAACACAGAGAACTTTTCCAGCCAGATTCCTG  
AGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAACCATGCAATGC  
AGCGTGTGTGGGAAAGTCTTCTCCGTCATTTCCTGGACAGGGACAT  
GAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAGAG  
AGACGCCCCGGAAACAGAAACAACATGGGAAAGCCTTCATTTCCCCCAGT  
AGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATG  
CAA  
>176.1  
ACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTTTCTTTCTC  
GTTCCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCGTCCCGCTCC  
TAAGGCAGGAAGATGCGCGCCGCACAGAAGACGAAAAAGTCGCTGGAGTC  
GATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTG  
>177.1  
TCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTATGAATTA

Table 3

TTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGC  
AGGATGTGGTTCTGCATCTCCCCACAGACGGGGTGGTTCTAGA  
>178.1  
TGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGG  
AATATTCATCAGATTGTCTCTGTAAAAAGTGAATCACAAAAATTCACCTG  
TGTAGGTGTGGGACTGGACAGCTGAGTGACAGGGCCCTGGGAAGAACAGA  
AACCACTTTTCTCTTTCTCTGAAATATCAGAAGTTAAAAATCTACTCT  
GAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTATGAAAA  
TGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCCAC  
AGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGT  
>179.1  
CGAGGTA CTACAGTCACGCAAATTCAGTGTCTGCGTGACGGCTCTCCA  
TTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAAT  
TAAGACCTTCTGAGGATGAGCGATAGATAAACACACCTCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTACGAAGATCATTGAGTTTCCATATGCTGAAGGTTT  
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCAATCTATTTCTTCCAGCTTCTCTGGCCATCTTTCTTGAT  
CTGAGACAGTCTGATCAGTTT  
>180.1  
GCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAA  
GGTTACGCCACAGAGTGTGAATAGTGGAACCACTTCAGCATATGGAAC  
TGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGA  
GAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGAT  
CCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTT  
TATCTATCGATCATCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCACGCAGAC  
TGTGAATTTGCGTGACTGTGAGT  
>181.1  
GGCGGCCGAGGTA CTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCTTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTGAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTGGCCATCTTTCTTGATCTGAGACAGTC  
TGATCAGTTT  
>182.1  
GCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCCT  
TTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGAT  
ATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAA  
CGCAGGAAAAAAAAACAAAACCTGGCTGGCGATCTGGAGTAAAGGATCCTC  
ACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAAAAC  
ACTGGGAGAGCCGAACTAAAAGTCTTTTAGCACGGGT  
>183.1  
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GAGCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATT  
AGCAGTGTGAATCTTGACAAACTTATAAATGACTTCTCACAGATAGAAA  
GAAAATGGTAGAAACCAATGGAAAGAACAATATACTGGATATTCAGTTGG  
AAAAAGTAATTGCCTATTTAAAGTAATGCAAGCAAAGGAGGTCTCCATT  
AAAGAAGAATGTGCTACTCTTCATAATATAATAAAGGGCTACAACAGAC  
CATTGAATATCAACAGAATTTGAAAGGTGAAATGAACAATAAAAAATAA  
GTGCTGATCTTATAAAGAGAAAGTTAAAGTCTCATGAACAGGAATATAAG  
AATAATATTGCCAACTTGTAAGTGAAATGAAAATCAAAGAGGAGGGATA  
TAAGAAAGAAATAAGCAAACCTTTATCAGGACATGCAGAGAAAAGTTGAAT

Table 3

TAAATGAAGAAAAGCACAAAGAACTAATAGAGAAAAAGGAGAT

>184.1

GGCGGCCGAGGTACATGGATACGTTCTTCTTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGA  
TATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCA  
ACGCAGGAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCT  
CACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAA  
CACTGGGAGAGCCGAATAAAGTCTTTAGCACGGGT

>185.1

GTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCT  
GTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGA  
CAGTGGTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATT  
GAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTATG  
ACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGGTTCGAATATCGTTCAG  
CAAGAATGGGGTGGTGAATTCCTTGCCAGGTTGTCTGGTGACAGACGG  
CTGTCTTGGCATTGGTAGAGGGTCACTGGAACA

>186.1

CGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTG  
CACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGC  
TTCACCCATAAATTAAGACCTTCTGAGGATGATCGATAGATAAACACACCT  
CCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACG  
ACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAA  
GAACAAGGACACACATTGTGTCAAGGTACGAAGATCATTGAGTTTCCATA  
TGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAAT  
ATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCAT  
CTTTTCTTGATCTGAGACAGTCTGATCAGTTT

>187.1

GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAAT  
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AAGAAGTGGCAGCATGGACTTATCATTACAGCACAAAAGCATACTCATGG  
AATATTTCCCGTAAATACTGCCAAATCGCTACACAGACTTAGTGGCCATC  
CAGAATAAAAATGAAATTGATTACCTCAATAAGGTCCCTACCCTACTACAG  
CTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGG  
TGGAACCAAAAAGGCTCTACCAACGAGGCTGAGAACTGGGCTGATAAT  
GAACCTAACAAACAAAAGGAACAACGAGGACTGCGTGGAGATATACATCAA  
GAGTCCGTGAGCCCTGGCAAGTGAATGATGAGCACTGCTTGAAGAAAA  
AGCACGCATTGTGTTACAC

>188.1

ACTTTTTTTTTTTTTTTTTTTTGTAACTACAGGTGTCAGATGCATCACA  
AAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCATTCTTGTCAATTT  
CATGCTGCCTACAGCAACAGCATAATACTGCAAACAGCCATGATGTCA

>188.2

TCTCTGTGATTGACAGAGAGGGACACGTCGTAGTCAAGAGGTGTGCTCCT  
CAGAAGAATATCAGAACTCAACTCGCTGTGCCTCCAAGGGGCTCAATCCC  
TTGATTTGAGGGGAGGGATG

>188.3

AGCGGATGGGAAGTGATACTAGGTATGTAAAGGATGGTCAGTTACCTCTA  
AATGTAAGTTAGACCAGGACAGCCAG

>189.1

GAAGGAAAGCAGCTGCAAACCTCCCATCTGCAGTGTTTGTCTCGGC  
TCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGGAAT  
ATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAATAAGCTTTATTG  
CTCACACAAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGACATT  
TGGTGCCCTGACTTGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTG  
TCCTCCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTGGTCC  
TCAGACCAACCAGCCCAAGGAACATCTACCAATTTTAAATCAAGAATAT

Table 3

TCTGTGAAAAAGACTAAGATATCAGAGAAATTATTAGTGCACATTATTAG  
AAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAGACTCTTGCTTTGAG  
AAGACACAAAGAAATCACATCATCTTATTGGGATTACTGGC  
>190.1  
CATCGCCGTCCCATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGA  
GCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGC  
TCAGGAAAGGGGAAAAGTTTGGTTCGAGGAGTGATAGCGGGACTCGTTGAC  
ATTGGGGAAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGT  
GGAAGTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACC  
TCACACATGGAAAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGT  
TGCCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACA  
GTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCAC  
AAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCA  
TTCCGATGTGATTGATAGTCAGGAAGCTT  
>191.1  
GTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAAGATTGGGGGA  
TGCTGGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATG  
CCTGTTGGGTTGCCTATGGATCATTCCTGCTGGGCTCACTCACCGGCTT  
CGTATAAGGTCTTTTTGAGGTTTATTATTTCTTGTCCATATACTTGAT  
GCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAA  
AGGGCCGGACAGCCCCGAGTTGGGGGAAGCTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAA  
GACAAGGATTTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAA  
GTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACA  
>192.1  
TGCGCGCCGCCCGGCGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTC  
TGGCTTGAATACAGCTGAAATAACTGAATTTTCTACTTGAACGTGTGT  
GCCTCTCCACTGAGGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTT  
GTTACAGAGGGGTTTCAATTGCAGTGAAGGGCGGGTTCTGCAAAGACAAACA  
GGTCTCACAGATAGTTGCCCCCGCGT  
>193.1  
TTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGG  
C  
>194.1  
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCA  
AGAGCCAGCTTTGAAGCCAAGTGCCCCCGCGTACCT  
>195.1  
CCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAAC  
AGATCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAA  
TAAAAACCCTGAAACATGACGAGAGTGTTGTAAAGTGTTGGAATGCCTTC  
TTAAAGTTTATAAAAGTAAATCAAATACATTTTTTTTTTCAAAAAAAAAA  
AAAAAAAAAAAAAGT  
>196.1  
GGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATT  
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TACAGGTGACTTAATTAATATCTACTCCAATTATACACAACACATCATGC  
TGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATATTAGTGCA  
GAAAAATCACATTCATAAACCACAATTGTAGAAGAGACAGATAAGTGTG  
TTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGGATGAT  
GAATCACAAATCACCATGGTCGCCGCTGAGCGCCAACCCCTACCCCGTCG  
CCTCACTCGGATCCCCCGCGT  
>197.1  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA  
>198.1

Table 3

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGT

>199.1

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAG  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAA  
CAGTTTGTGAGGACTTATCTGTTGT

>200.1

AAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGT  
TATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCA  
GCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTG  
TTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG  
AGGAGCGTGACTGTGAGT

>201.1

GTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGC  
CCAGCTTCTTGGGGAAGGACAGATGAAGCTGCTTTCCA

>201.2

CTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAA  
GAAGTACCTGCCCGGGCGGCCGCTCTAGAAGTAGT

>202.1

TTGGGGCACAGAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAA  
GATGACGAGTGGGGAGAAAGTGCAGGAAAGAAGGAAATTAGTCTGACTGG  
CTTTCTGTCTGCACCATGATTCAATGGAGACTGGCGGGAGGAAATGGA  
AGACTAGGGTTGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAG  
GCAGACAACCTAATGCGTTCATTTATAACAAGTAATATATATCAAAGACT  
TAAAGGAGATTAAGACCAATCAGAATAATTTGGCAACTTTAATTCCTAG  
GAAGATCAAAGTTCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGC  
AAAGACCAGTATGGT

>203.1

TCCTTTCTCGTTCGCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCG  
TCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCAAACCTCGTTATGAAAAGTGGGAAGT  
ACCT

>204.1

CGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAACCTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

>205.1

CCGGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAACCTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

Table 3

&gt;206.1

CGCGGTGGCGGCCGAGGTA CT CACAGTCACGCTCCTCTGAACCATCCTTG  
GGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGT  
CTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACAAGGACACACATT  
GTGTCAGGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCA  
CTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAG  
ACAGTCTGATCAGTTT

&gt;207.1

CGCGGTGGCGGCCGCCCGGCAGGTACATGGTTCTTCCTAGAAAGTGTTTC  
TTCCTTAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATG  
TTTCTTCTTCTTCTGCCACTTTTTCTTCTTCTTCTTCAACTGAATAG  
GGTAAGTGTAAGGCACAACAAATTAACACTGTATCAGATCTCATTCTT  
CCAAAAACGTTTGAGTCCTAGTTTTTTCTGTCTTCTCATCAACTACCC  
AATGTTTGTTTTGTTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACC  
ACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGA  
TCATGAAGTCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCT  
CCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAATGGTTAAGAGCT  
TGCACCTGAAGTCAGACGGCCTGGGTTTAATCTACCTGCTGCAACCCTG  
AAAAATTGTATTTACCCTTGGTGAAGCTCCCTA

&gt;208.1

ACATGGTTCTTCCTAGAAAGTGTTCTTCCTTAATGTGTTTCTTTTACC  
CCTTTTCTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTGCTGCCACTTTT  
CTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT  
TAACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTT  
TTTTCTGTCTTCTCATCAACTACCCAATGTTTGTTTTGTTTATTTTATA  
ATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGA  
TAGAGCTCAGAGCAATCTTCTCAGGATCATGAAGTCATGTATAAAATCA  
GGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTC  
AATTATATTAGAAATGGTTAAGAGCTTGCACCTCTGAAGTCAGACGGCCTG  
GGTTTAATCTACCTGCTGCAACCCTGAAAAATTGTATTTACCCTTGGTGA  
AGCTTCCTATCTATAAACTTAAGAATGTCTTATCTTACTGGACTGTTAC  
TGATTTAAAAAGAT

&gt;209.1

CGCGGCGGCGGACGAGGTACACGACATAGGCACATGTGCAAACACAAAGA  
AGGTGGGCTGCTGCTTCTTTCTATCTGCCCTAGACCAGGCTCCTTTGCT  
TCACGTAAGATGGAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACAT  
TTCCAGGAAGAAACAATTCCTCACTGCCTATAAACTGTAGTCACATGTG  
GGATAGTCAATAGAACATGAGAATCAGAACAATCTGGGCAAATGGGTATG  
GCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTATGCC  
AGGCCTTTTGGCATATGGGTGCCTTCTGTGTCTTCTTTCCA

&gt;210.1

GGCGGCCGAGGTA CT CACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCGGTGTGAACCTCTCCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT

&gt;211.1

CTCACC GCGGTGGCGGCCGAGGTA CT CACAGTCACGCTCCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCGGTGTGAACCTCTCCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATGCTGAAGGTTT  
TTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCCCATCTTT

Table 3

&gt;212.1

TGGATGACATTGGCGGTGGTCCTTGATACCAGATAAGCCCTCAGTGTGAA  
GCAGCTCTTATTTTTCCCTTGCTTGAGATTGCTCTGGAATGGAAATTAGG  
CTTTTTGAAGGTGTGACCCCTTTTTGTTCACTTCTTCAGCAGTTACTTTT  
TAATTTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAA  
TCACCGATTACTCTCCTTGCTCTGTTAAGTGTGACACTGTCCCTTTGAGA  
ATCTGGCGACAGCTATGTATCCCATACACACACCCCAAAAAAAAAA

&gt;213.1

GGCGGCCGTTTGAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCATT  
GACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCC  
CGGTACCTCGG

&gt;214.1

TTTTAACACAATATACCTAACATATTTTTATTTCAATATCTAACCAGTAT  
AAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAAC  
AGAAGTAATACCTGATTAAATTAGAATTCCCAACCCTCATCAAGTGTGTGC  
TTATATAGAAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATAC  
TCTTGCTTGGATGAGAGTGAGGAAAAAGGTATTAGTATTGGCTTTTAC

&gt;215.1

GCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATTGCCGTTGACT  
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CTTTGTCTTTGTCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGTCTGC  
CGGACTTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTG  
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GCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAG  
GATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT  
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCG  
TGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATT  
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AAGAGGAGAT

&gt;216.1

CCACCGGGTGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATT  
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CGTGCTGTGCCGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAA  
TTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCCCCGT  
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CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCT  
ACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGAT  
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TGACCACTCGTGATCCTAGACATGAACATGGAGTGGAGGCGAAAAATTAC  
GA

&gt;217.1

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TTTTAGCTGAATGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCC  
CTTGACCCATAGGTAGCCATGGGACAAAGTTCTAACCCAGGGGGGTCC  
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AAAAAAAAAAAAAGT

&gt;218.1

CGCGGTGGCGGCCGAGGTACCATCCTGTTCCACAGAGCCATTGCCTATTC  
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Table 3

TCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCC  
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>220.1  
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>223.1  
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Table 3

&gt;224.1

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TGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGA  
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GGTATCAGGCCAAGCAAGGGAAAGAAGCTTTACTGTATTACCATCTTT

&gt;225.1

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CAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAA  
CACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGAT  
CCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTCTC  
CAAATAAGAACAAAGGACACACATTGTGTCAGGTACGAAGATCATTCACT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTT  
CTTCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTC  
TGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

&gt;226.1

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&gt;227.1

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TGATGACCAAAGTGACAAGGGT

&gt;228.1

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GCTGCGCAGTATGTGCCCTGAATAAAAATCCTGAAGATTAGATGGTTCAG  
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&gt;229.1

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CTT

Table 3

&gt;229.2

TGTTACATTGGTCAGTTTTTACTTGTAAAAAGTATTATAGAAGAGTTTTTA  
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&gt;230.1

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CATGG

&gt;231.1

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&gt;232.1

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TTTGGGAG

&gt;233.1

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AAAGG

&gt;234.1

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ACGC

&gt;234.2

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&gt;235.1

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&gt;236.1

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&gt;237.1

Table 3

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Table 3

TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCTC  
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>248.1  
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Table 3

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>252.1  
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>258.1  
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CGCAGAGGTTCTCATAGAATTTCTCTTCACTCAATCATATCTACTT  
ACACAAGCAGTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGAC  
AAAGAGATATTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCT

Table 3

CATCCGGTTCCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCAT  
TGTACCTGCCCCGGCGGCCGGCTCTAGAAGTAGTGGATCCC  
>259.1  
GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGG  
AAGAGAAAAACCGAAGACGAAGCCACTACAGCCCCGCGTACCT  
>260.1  
TGTAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTAAT  
TGCCTTGCCTCACTTG  
>260.2  
GGGCGGCTTCTTTCCGCCTTTTCTTCGGCTTCAACTGAACTCCGCTTG  
CGCTTCGGGGT  
>261.1  
AGTCATAAAGTGTAAGCCCTGGGGTGCCTTAATGTAGTGAGCTAACCT  
CACATTAATTGCGTTG  
>262.1  
ATTTATTTATTATGTTGTAGCCGGGGCGGCCGAGGTACCCGATAGAACAT  
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CTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCACCCTGCTCACGG  
AGGCACCCCTGAACCCCAAGGCCAACCGGGAGAAAATGACTCAAATTATG  
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ATGGTGTCACCCACAATGTCCCATCTATTAGGGCTATGCCTTGCCCAT  
GCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCAT  
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GAAAATGAGATG  
>263.1  
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>264.1  
GGCCTTTAAAGCCTTCGCTTTGGCTTCAGCTTAGGAGGGGCAGGAGCTT  
CC  
>265.1  
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>266.1  
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GCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGCATCAT  
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CCCGGGCGG  
>266.2  
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GAAGTTTAGCGAAAATTCGGCCTAAACAGTAATAAATGAAAATGGAATGG  
AATCAAAGTTC  
>267.1  
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CTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCT  
TTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAAT  
GGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATA  
TTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGAA

Table 3

CTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATTCCGG  
CTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>268.1

ACATTTATATGAAAGTCCTCACTTTCAGAAGCAGAAAAGGAGTAACTAGA  
TGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTACTGA  
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AGTGGAAGACCTTCTGGCACTGCGACCACTAAACTGTAECTCAATAAT  
GAAGAAGTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCC  
ATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAATACTAGA  
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TTTTTT

>269.1

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ACAGATGCACAGGAGGCCATAGGGTTTAGGCAAAGGGGAGCACAAAAGTT  
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CTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCAGTAGC  
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CGCGTACC

>272.1

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TAATGGCTGCTGGACAAAACCTCCAAAGTTCTTGAAAGATCAGAAATGAT  
AGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCCCTC  
AAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGC  
AAGAAGATCCATCGCAGAGTCTTAAAGAAGAACCCTGAAAACTTGAG  
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TGCA

>272.2

CGGCACTACAAGCCCAATCAATGAGAAGGCCGGCGGTTGCAGGCAAGAAG  
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>274.1

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AGAGGGCGGCGACGGTGGTGGTGACTGAGCGGAGCCCGGTGACAGGATGT  
TGGTGTGGTATTAGGAGATCTGCACATCCACACCGGTGCAACAGTTTG  
CCAGCTAAATTCA

>274.2

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>276.1

CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCT  
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TTCTAGCCTCGCCCCACGCGCGTCGATCTTTATGTTATACCGTCACTCCC  
AGTGCCCTAATGGAAGTATCCCTCCACTCACTCCCCCTGGTTCTACCCCG  
GCTCCAAGAGCCTCTCCCGG

Table 3

&gt;277.1

GGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCTTGCCTTCAGCT  
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CAGGGCCTGCTGATTTTTGGAATGTGATTATTGGTTGTTGCGGCATTGC  
CCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAACACAGGCCTCT  
ACCCACTTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTG  
GATCGGCAT

&gt;278.1

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AGGCCTGCAGCTGTTTCATTGATCCTTGCAAGTTCATCCATCACCAACTCC  
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TTTTGTATTAAGAATTCATTCTGAGAAGACCCAAGATATGTCATAGGT  
CCACTTTGACCTCAGTAATTTGGCCTCAGTTGATCCTCTGGACAATATC  
TCTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACG  
TTCTAAAGAAAATTTGTTATGTATTCCTTCATCTCAGCCACAGATGCTT  
CCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTTTGT  
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&gt;278.2

AATGTTTCAATTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAACTTTCA  
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GAAC

&gt;279.1

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CTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCACTTGGAAGA  
CTACAGAGGAATCTTGCTCTGCATAGTTCAAACCTAAAAAGAGAAGAGTTA  
ATTACCTGAAAAGCAAGAGAAAAACAAGAAGGGGTAAATTTTGAACCAAGG  
GAAATCATTTAAGAAGTGTCTGGTATTTTCAAATTTCTGTCAAGTTGTTA  
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TTATTTAACTCCCCCAAAATT

&gt;279.2

AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

&gt;280.1

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AATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATACTT  
GGGTCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGT

&gt;281.1

CGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTC  
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GCC

&gt;281.2

AGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAG  
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GACTGGAGGGGCAAACTCCGATGTGACTGAGGCCCCACTGCCAAATGGCG  
GCATGCTCAGATAGCACCCAAGAATTTGGGGAAAAAACTGGTGCTCACAG  
CT

&gt;282.1

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AATTGGGCCTTGGGCCA

&gt;283.1

Table 3

GTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATTC  
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CAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGCCATTCTTG  
TGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAA  
AGCAAATGTGAAAATCTTCAAATCCCAGGGTGCATGCCTTAGATAAATA  
CGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAGCCCATAACC  
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TAGTTGCTTGACTTCGTTGGATCAC

>284.1  
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GCACGCTCTTTAAGAGTCTGCACTGGAGGAAGTCTGCCATTACCAGCCT  
CCTTTCTTGCCAAAGGGAGGGGGAAACATACATTTATTTCATGCCAGTCTG  
TTGCATGCAGGCTTTATGGCTTCCTACCTTGCAACAAAATAATTGCACCA  
ACTCCTTAGTGCCGATTCCGCCCCAGAGAGACCTGGAGCCACAGAGCTT  
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>285.1  
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TCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGAGATGGACCAGC  
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CAGCCTGAAAGAAGAAAACCTTCAGCTTTGGCTTTGCTCTCTCTCTGCC  
ATCTGATAATAGTGTTATCCAAGATAAATTCTGTGGGATTATAAACATTT  
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>286.1  
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>287.1  
CCGCGGTGGCGGCCGAAAACTGATCAGACTGTCTCAGATCAAGGAAAAGA  
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ATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCT  
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GGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAG  
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ACGCAGACTGTGAATTTGCGTGACTGTGAGT

>288.1  
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CTCCATGATGATGCA

>289.1  
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ATTTTGTTCCTTAATTGATCGTGAAAAAGAAAGGCTGGAGCTGGAA  
AGAGTTTCCTTTAAGTGTTCCTTTATTGAAATCTATAACGAGCAGATA  
TATGATCTACTGGACTCTGCATCGGCTGGACTGTACTTGGCCC

>290.1  
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>291.1

Table 3

CTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTG  
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ACTTATGACAAATGTAACAAGTACAGAAATTTGAAAAATACCAGACACT  
TCTTAAATGATTTCCCTTGGGTCAAATTTACCCCTTCTTGTTTTCTCTT  
GCTTTTCAGGTAATTAAGTCTTCTCTTTTTAGTTTGAAGTATGCAGTGCA  
AGATTCTCTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAAACACTTT  
ATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGGTTGGC  
TCACGGGTATAGGGTAGTAAGAAGAATTTACAGAAGACAGTCTAGGTT  
CGAAAAAGAAAGTTTTATTTGAAAGAAAGAA  
>292.1  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGA  
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ACCCTGACTCTCTCCCGCTCTTTTCTCAGGTGGAAGTTTCCTTTAAGA  
TCACGCTGACGTCGGACCCACGGCTGCCGT  
>293.1  
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GCAACACACAAGAAAAGCAGTTTTTTTTTTCAGGTGCTGACGGCCACCCACCA  
TCATCTAAAGAAGATAAACTTGGCAAATGACATGCACGTTCTTCAAGGCA  
GAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAAT  
ACCTCTGAGAATAGAGATTGATTATTCAACCAGGATACCTAATTCAAGAA  
CTCCAGAAATCAGGAGACGGAGACATTTTGTGAGTTTTGCAACATTGGAC  
CAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTGGGC  
ACAGAATTGCTGGGAAGCCTCT  
>294.1  
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GGTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTT  
CTTTGCATTTCTACCTCTTTCCCAACAGCAGTGCATGTCCACCATACCAC  
CTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTACACTC  
ATTTTCCTGTCTTTATTATGATAGTCTAATTTTTCTCCTCAAAGGTATA  
GCTGCCTTGCTTTTATGAAAACACACTTTCTTATTGTGATTTATCAGAGG  
CCTTTCCATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATAAG  
TGCATTTCAAAGTGAAAACGTTACAAACATGCTTA  
>295.1  
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AGAGCTTTAATGCTACCAAAGTGAACGAGTATTTGCAAAACCATTCCT  
TGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATC  
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AATTTGGAATCTAAGTACGCGGAATTGTATCCGACT  
>296.1  
GCGGCCGCCGCCGGGCAGGTACGCGGGGCTCCTTGTGAGTAGACTATGCAA  
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CAAAAGGGAATAAACATTTAAAGACTCCCCGGGGACCTGGAGGATGGAC  
TTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAATAATCAGAGACTGG  
TGCTCTTGGAGAAAATATAGTTGGCAAATTCCTTAACCAATGACT  
TCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCTCCAGAAT  
AAGTTTGGCTGTATCTCTACCATGGTCTCTCCAGTTCAGGAAGGCAACAG  
CAAATCTCTGCCAGTGTTAACAAAAATGCTGACTCCT  
>297.1  
GTGGCGGCCGCCGCCGGGCAGGTACGCGGGGGAGGGCTCCGAAGTCTGGTT  
TTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTG  
TAAATACCAAGCCTTGAAAGGGACCATGGTGCGGCCTGTGAGACATAAGA

Table 3

AGCCAGTCCATTACTCACAGTTTGACCACTCTGACAGTGATGATGATTTT  
GTTTCTGCAACTG

>298.1

TGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACT  
AGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCATTGTTTGT  
CTGAAGAACTGGAATCTGTCTGCTCGCCCTGAGCACTGTATTTATCCCTT  
TACTCAGTCCCAGGGACTTCTCCAATAGCGACAACCTCTGCGGCCGCCGCC  
ATCTTC

>299.1

TGGCGGCCGAGGTACTTCTGTCTTCCAGTTTTCCACTTCAAACCTTCTATC  
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TCTGCGTTTAGTAAATGCGTAACTAGGCTTTAAATGACGCAATTCTCCC  
TGCGTCATGGATTTAAGGTCTTTAATCACCTTCGGTTTAATCTCTTTT  
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TTTAAGCTGTTTAAGTCACCTTCATTTAATCTAAAAGCATTGCCCTTCT  
ATTGGTATTAATTGCGGGCTCIGTAGTCCTTTCTCTCAATTTCTTTAA  
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TAGAAACCTTTTATCTTTTCTTCCCTCATGCTACTCTTTTAATCTTCAT  
ATTTTCTCTTAAATCTTAAG

>300.1

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CGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAGCAAACCACAATG  
CAAGTATTTCTGACTCCCAAGATTGCCGTTTCTTAAAGAGCAATTCTTCT  
GCAGGCAACAGCAAACCTACCTTTCTTGTAACTGCTTTCAGTAAATTC  
TTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTCACCCTTCTTTT  
CATTGTAGCAATGATCTCAACACGTGGACAAAATTGGCTTGCAGGAATAA  
T

>301.1

CGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
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AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
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GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCAGTAGAGGGTTTGTAGAGTACCTCGGC  
CGCTCTAGAACTAGGTGGATCCCCCGGGCTTCAGGAAT

>304.1

TTGGAGCTCCACGCGGTGGCGGCCGTGCCCCGAGCTTTCTCTGTCCATC  
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TCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGTAGCGC  
GAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCGAATGCTGTCAG  
CTTCAGGAATCCCCGCGT

>305.1

ACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAAGTAAAGAGCAAA  
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ATGGCCACCCCTTAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTA  
TCATCTCCCCCACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATG  
AGATGTTTATGAAATTATCTGTAGCTATTAAATGTCAGGTTTTTGAAATTT  
ACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACA  
AAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGTACACACAA

>306.1

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Table 3

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TGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTT  
GCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGT  
TCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTT  
GCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATGGGGC  
TGCCTGGATCGCATATTTGTGGGCATCTG

&gt;307.1

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GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTCTACC  
CCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAAATGGCGCCGAGGTC  
CCCCGCGT

&gt;309.1

TTTACAACCACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTTCCA  
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&gt;309.2

GCAAAGCCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTATGAA  
ATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACAAAG  
CTTCAGGACAAATTGTACCTGCCCGGGCGGCGCTCT

&gt;312.1

CGCGGTGGCGCTGCCGCGCCAGACTCTTGGAGAAAGTATAGCAGCAAACA  
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TTGAAAGATGGTGTTCTGATTGAATATTGAAGAATTAATAGAGAAACT  
TCAGTCTGGAATGGAGGTTATGGATCAGATTTGTGATGTGAGAATATCTG  
ACATAATGGATGTATATGAAATGAAACTATCCACATTAGCTTCCAAAGAA  
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&gt;313.1

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AGACCTGTCTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATC  
TTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCT  
TGGTATTGTTTACCTAAAAGGAAGAAGTGTAGGAAAACTGATATAAGTA  
GAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGA  
CAAGTTGTCCTGAACAATACACATTC

&gt;314.1

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GCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAAATGTCG  
AGAGCTGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGT  
GATTGACCCACACACTTACCTTTGTGTTCCCTCCAGAAAATCCTCAGGGA  
GTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACT  
GTTGCTTCTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTG  
TTGCGGCATTGCCCTGACTGCGGAGTGCATC

&gt;315.1

GCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCATTAGATTGAGTTATGTT  
GCTAGGAGATGTTTATTGAGTCAGCTGAACTTAAGCATATGGGGCTTAC  
TTGGCCCCCTATCAATTTGCGTCAAAATAAATTAATTGTAGACCTGTCT  
TGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCTTTTAGTAACCCCTCTTGGTATTGTTT  
ACCTAAAAGGAAGAAGTGTAGGAAAACTGATATAAGTAGAGAGTTTATT  
TGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGACAAGTTGTCCT

Table 3

GAACAATACACATTCTTATTAGCAACAGTTATAAGTAGGTTTTCAAAGAA  
AAAGAAGAGGCAGTTCCTAAG

>316.1

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA  
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCCCGCGTAAGCA  
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CCAGTTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCCCTTGCAATTTTGGGACAGAATGGAATCTCAGACCTTGTG  
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>317.1

CCCGGGCAGGTACTCTGCAGAAAGTATAGCAGCAAACAATGCCTATAGAC  
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TGTTCTCGGATTGAATATTGAAGAATTAATAGAGAACTTCAGTCTGGAA  
TGGTTTTTAAGGATCAGATTTGTGATGTGAGAATATCTGACATAATGGAT  
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>318.1

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GTGTTGATGAAGGAATCTGTCTTGAACCAATAGTGGAAGTGAAGATC  
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TATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTATAA  
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>319.1

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GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTC  
AGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATACTGCT  
GGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGTTATAA  
ATGCCCATCTGCAGCAGCCGCCTGTAAAACCGGAGAGCTATTTCTGGCTG  
ATCAGAATAGAAGTGGTTGCTTCCAATGCATGCG

>323.1

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TCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTGGAAAGCT  
CTGCCATAAACTTCTAGCGTGTGCCAATGGTCACTGCCACACTCGCACC  
AGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACCAGGC  
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>324.1

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AAAATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAAGTCTTC  
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>325.1

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Table 3

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>326.1

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>327.1

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TACCCGGGAATCC

>328.1

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>329.1

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GAAGGTATTTCTTATTTTAATTGCTTTTGGGATTACTCCACATCTTTTG  
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>330.1

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CGGGCAGGTACTTTTTTTTTTTTTTTTTTTGGCTTTCTTTGCTCCTTTC  
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>331.1

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Table 3

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>332.1  
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>333.1  
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>334.1  
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>335.1  
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CTCCCCAACCTTACCCTACACCCCTCACCTCCAATCCAAGCCAGTCTCC  
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>336.1  
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TCAGGCTCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGA  
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>337.1  
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>338.1  
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>339.1  
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>340.1

Table 3

GGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCT  
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CTGATGGGAGTGTATC

>341.1

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CGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGT  
GTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAAGTGTTATAGTAT  
ACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTT  
CGGTTTCTCACTGTTATCTTCCTTTCTATAATTAATTTATTTAATCTA  
CAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTA  
TGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAATGTTT  
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>342.1

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GTTTCATCTGATGTCATCTGGAACTGAGTAGCACATTTGCCTGCTCTGTT  
GGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTCCAGA  
ATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGTATGCA  
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AAGTTGAAGT

>343.1

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CTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATC  
TCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGA  
GGAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGAGAACTCTGT  
GGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTT  
CTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAAATGTGCTTCA  
AATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAACT  
ACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGA  
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GCTGCTAAAAAAAAAAAAA

>344.1

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AAATTTACCCCTTCTTGTCTTCTCTTCTTCTTTCAGGTAATTAACCTCTCT  
CTTTTTAGTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAG  
TGGAAGGGTATAAAAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCA  
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>345.1

ACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAGCAATGCAG  
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TCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGTTTTG  
CACAGCAGAGAGCAAAGTCCGCTTGTTATTCCACCCGATACGTGAGCTCA  
GTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCTGAGG

Table 3

CCTTGTA GACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTG  
CCCTCACCTTGACACATGCGGACCCTCCCCAGG  
>346.1  
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GCAATTGAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAA  
CCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTACAATATCACCTTTC  
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>347.1  
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>348.1  
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>349.1  
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>350.1  
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>351.1  
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>352.1  
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Table 3

AAATAGAATGAGAACCATATTATGT

&gt;353.1

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTC  
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AAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGA  
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CAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTG  
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&gt;354.1

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CACTAAAGAGATATTTAAGTAGATACTATTATACTACTAAGAATAGCAAG  
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&gt;355.1

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GCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAG  
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&gt;356.1

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&gt;357.1

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&gt;358.1

Table 3

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>359.1

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ACTG

>360.1

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>361.1

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>362.1

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TCAGACACACACAAAGGGCAACTCTAATCAATTAAGGAAACAAAGAG  
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>363.1

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>364.1

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TT

>365.1

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Table 3

CCTGGAAATTACAAGGAAAAAAAAATTCTTCCTCTAATAACTTTCCAAATT  
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>366.2  
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>371.1  
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>371.2  
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Table 3

&gt;372.1

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GGAGT

&gt;373.1

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&gt;374.1

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&gt;375.1

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&gt;376.1

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&gt;377.1

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&gt;378.1

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Table 3

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>379.1  
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>380.1  
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>384.1  
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Table 3

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>389.1  
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>395.1  
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Table 3

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>398.1  
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>402.1  
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Table 3

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Table 3

&gt;409.1

TTTTTATTTTGCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCT  
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AAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAA  
TTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTT  
TTTAGTTTGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGG  
ACGGGTATTAACAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAA  
CCCTGGCTTCGGAAAGTGGTTGGCTCACCCCGCG

&gt;410.1

GGGCAGGTAAGTGTGCAGTAGTAACCATAATTCTAAATGAGGATTATGGAT  
TTTTCTGGAAGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGG  
AGAGGGGACATAGCCATTTTGTATGAAGACCAATTC

&gt;410.2

CACACTCACACACGCATGCACACATGCACGCACAACCTTCACTCTATATTT  
ATTCT

&gt;411.1

CCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAACTG  
GCCCCGTCAGGGGGGACATAACCATTTCTGTGCCACCCCATCAGTACCC  
ACCTATTGTGAGCGAAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATC  
TTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAGACT  
GGCTCGTGGTTCCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC  
TGAATCTAAAGAAGATGAAATCTAGTAATTAATGAAGTCATAAATCTC  
CCAAAGGGAAAAACGCAAGGTAGAATCAGACAGCTTGTGCTTGTAGT  
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GACGAAACGAAACCTGTGCCTCGAGCG

&gt;412.1

GCCGGCAGGTAAGTAGAGTTTTCAAGTATGTTCTAAGCACAGAAGTTTCTA  
AATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTG

&gt;412.2

GTGAATTTGGCACAAAGGAGTGACAACTTATAGTTAAAAGCTGAATAA  
CTTCAGTGTGGTATAAACGCTGGTTTTAGGCTATGTTTGTGATTGCTGA  
AAAGAATTCAGTTTACCTCAAAATCCTTCTCTTTCCCAAATTAAGTGC  
CTGGCCAGCTGTCATAAATTACATATTCCTTTTGGTTTTTTTAA

&gt;413.1

GGTACCTAGTCTATATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAA  
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TCTAGAGATAATAAAAGGAAGGTGAATTTTTAAAAGACAAAAATAAGGC  
TAGAAAAGACTGAGTGGAGAAAGCCTACAGAAATTCAGAAAGCTAAAGAA  
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TGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAAAGTG  
TCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCCAGAGAGGGTGCT  
TGAGAATATACAAGAACCCTTGCGGTGGTGAAGTGAACAAAACGCAGCCAG  
GGATTTTCATCAGAAGCATAATCCATTTCATGGCACCAGTCTGGCAGTGCTG  
GGGAGCTGGTAAGATACACAC

&gt;414.1

GGCGGCAGGTACGCGGGATCCAAGATGAAGTGCAGAGAAAATAAAGAATC  
CAAAGTCATAGTCATGAGGACAGAAT

&gt;415.1

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AAGGCCAACAAAGGCAGTGGG

&gt;416.1

TCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCAG  
CCAGGGTCCGGTGAAGGATCCCAAATGGCTGGGCGAAAACCTTGCTCTAAA  
AACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACCAAAAGG  
CCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTG

Table 3

GCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGC  
CAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATACTGCCAGGTGGATGCC  
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GGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAACTTAA  
TTCCATTTGATCAGATGA  
>418.1  
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TCCGTGTTAGATAGAATCCTGATGTGAAATGGGAGGACTCAGGAAGGAGG  
ATCGTCTTTACCTGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTG  
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AGAGGAGGCAGCAGCATTGCACAGCCCCAGGCACAGTGGCAGTTAGGATG  
GCTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAATGTGATGTGCTT  
CATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAG  
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>419.1  
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>419.2  
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CTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCCCTGGCTCC  
CTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATATTCTTTTGT  
AGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCCAACTAAAAAT  
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GCGACCTTCAATCATTTTCAGGGGGCA  
>420.1  
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GTAGATTGGTTTTTGT  
>421.1  
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CTCGCTACAAGCCAATGACACTTTCAACAAACAGCAGTGGCTTAATGTA  
TTCGTCAAGCCAAAGAAACAGTTTTTGTGTGCTGCCGGGCAAGCTGGGGTG  
CTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGAGCAGAGAGCT  
ACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACGAGTGAGGTGAGCCTCGACTGTGAGCGCATGGAA  
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>422.1  
ACGCGGGAAGTGGGGAATTCTGGCCCTACGTGCATTCACAGGCAATGATG  
GGTTTGTGTGTATGGTGTGATGATCCTCTACCTCATAACAAAAGGACA  
GTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATATAT  
TAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAA  
ACCTATAAGGTCCTGGATAATTTTGTGTTGATTATTCATTGAAGAAACA  
TTTATTTTCCAATTGTGTGAAGTTTTTGAAGTTAATAAAAGAATCTGTC  
AACCATCAAAAAAAAAAAAAAAAAAAAAAGT

Table 3

&gt;423.1

ATTAGACAGGGGGAAGTAAAATTATCTTTTTGCAGATGATATGACTTATA  
TGTA

&gt;424.1

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CTTGTCCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCT  
CGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTA  
CGGTATCCGGAAGCTACAGATTCAGTGTGTGGTGGAGGACGACAAGGTGG  
GGACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAG  
AGTGTGATATCGCAGCTTTCAACAAGATCTGAAGCCTGAGTGTGGGT

&gt;425.1

GGTGGCGGCCGAGGTACTAAGTGGTTTAAGGATGGAAAAGAGCTAACAAG  
TGACAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGA  
TCATCAATGTAGCGCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAG  
AACCCTGTTGGCAAAGACAGCTGCACAGCTTCATTGCAGGTTTCAGGTTG  
GTTGATTTCTTGGGCTTTTCCTTCATCATTATAATAATGTAGTTCCTGAT  
TTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAACATGAGTC  
CGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCC  
ACCATTGAGACCACAGCCATTAGCTCATCCATGGTCATCAAGAACTGCCA  
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AGGGTGATGCCTAAAGATGATTCCAGGCTTGACATGCTGGTATTCTTAC  
ATATC

&gt;426.1

TGGCCGGCCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAA  
ACCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCTATG  
AATGTAAGCAATGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAA  
CATCAGAGAACACACACAGGGGAGAAGCCCTATGAATGTAATGCATGTGG  
GAAATCCTTCTGCCACAGATCAGCCCTCACTGTGCATCAGAGAAGACACA  
CAGGGGAGAAACCTTTTGGATGTAATGAATGTGGGAAACCTTCCGTCAG  
AAGTCGGCCCTAATTGTTCCAGAGAACTCATATAAGACAGAAACCCTA  
TGGATGTAATCAATGTGGAAAATCATTCTGTGTGAAGTCAAACCTCATTG  
CACATCATAGAACACACACAGGGGAGAAACCCTATGAATGTAATGGTTGT  
GGAAAATCATTCTATGTTAAGTCAAACTAACT

&gt;427.1

TGGCGGCCGAGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTT  
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GGGTTATTTATAAATACAGAGCCTCTGATTGGACGGTCTCCTGCCAAGAA  
CTAGTAATACCCTTGTTTTAAATCTTCACAAGGTAAACTTAAAAAGCC  
AACCAACAAATTGCTCTCCATTCTACTTTTAATTGGGCCAAACAGCATA  
TGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAATAAACTCTGTTTACA  
TTTGCCTCCTCCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTC  
GCCAGCCTCAGACAAGAAGAGTGAGCTGCTGGTACCTGCCCGGGC

&gt;428.1

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GTTCACTTGCGGGGCA

&gt;429.1

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TTTTAGCAAGTTGTGAATATACTTGGGCTTTCTGTCTTTCCCCAAAAGCA  
ATTTGGGATTATTTTCTCCTTTTTTTTTCTGCATTTTCATATAAATACTG  
TCATATTCATACACAGTAGCATCTTCTGCAAGGGCCTTCTGGATTTCCAG  
TTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGCTTCCCTCTGAAGGCTTT  
CACTCACAGAGGTCTCATCATCATCAGAATCATTCCCAAACACTGAT  
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CCCATACT

&gt;430.1

Table 3

GGCGGCCGAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACT  
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TGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGAC  
CCAGATGAAGACCCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTT  
GCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAG  
AGAGTAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAAT  
TCTGAACACTGGAGAAAAACCGAAAAATGGACGGGCATGAAGAGACTAA  
TCATCTGGAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCG  
GGCCCAGCCCCAGGCTGCAGCCCATTGCGAGGCACCCGAAAGAACTTCCC  
CAGTATGGTGGTCTGGAAGGACATTTTTGAAGATCAACTATATCTTCC  
TGTGCATTCCGATGGAATTCAGTTCATCAGATGT

&gt;431.1

GCGGCGAGACCAACAACAGCCCTCCAACAATGATGACCAGTGGAAAAAC  
AATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTG  
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CTGAGATAATGATGCTGACTATCCCTGGCCTCGTCAATGCTGTGTTATG  
AACAACTCTCGAGCGGCCGCCCGGGCAGGACGCGGGAGTTCAAGAAGCTG  
GTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATTGCAGAAGCT  
GGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAAGC  
TATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAG  
CGTATTTTGTGTGTGAGAAGAATGAGAATTTGGCTGCCAATTTCTTCTA  
CAGCAGAACTTTGATGAAGATTGAAAGGGACTTTTTATATCTCACACTT  
CACACCAGTGCATTACACTAATTTGTTCACTGGATTGTCTGGGATGACTT  
GGGCTCATATCCACAATACTTG

&gt;432.1

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TGAATTCGTGATGTGTAAGTATTCTCTTCTGAAGGGGAAACGCATT  
CAGAGCATTTGTTCCGGGCTCATGTAGGAATAGATCTTTGACTGCCCGGTA  
AATCCCGCGT

&gt;433.1

GCGGCCGCCCGGGCAGGTACAAATCTACCTCCCCACCAATGTCCTTAGA  
GGGCCAAAGATGGC

&gt;433.2

GCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACT  
CCCTTTATCTTTCCATAGCACCCCAAGCCTAAAACCAGACTGGCACAAA  
T

&gt;434.1

GCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTA  
GATATCCAATTTTCAGAATGTGCTCAACATTGGCCACTCCATCTGCCATT  
CTTAAGTCTCCTTGGGAGTCTCCAGAAGAATTATGTTACTATTGTCTTT  
TAGTTGATTGAAATATTCTGTATTCTCAAGGCACCATCATGTTTGTTAA  
ATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCACCCCTATGAAAAA  
TATAAATCTTTGAACAGGCTTTAAAATTCTATTTGTTGGATTTTCATA  
TTTTGGAGCTCTTAATTGATGTCACTATTATTTTCATCATATTTGTAAATA  
CATCTTTGATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCA  
TAGCTAAGAAGGGCTCGGAGAAGTAAATGATTTTTTAGATACTATTTTAA  
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&gt;435.1

ACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGC  
TTAAAATTAAACCACAGGTTCCATTATGGGTGCACTTGATGGGAAAGTCA  
TCATCCTGA

&gt;436.1

GGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCCAGCC

Table 3

AAGCACTGTCAGGAATCCTGGGGAGGCAGCTACCAACTGACTGCAGATCT  
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>437.1

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTT  
ATTTTGCTTTACAGAAAAAATGGTTTTCGTAAATAATTTGCCTATTTTGG  
TTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTGCCAC  
TGCTGAATCAAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTGCGC  
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>438.1

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ACTTCTTGCAATGCGAGGGGACCATTGCGTGGCCCACTCTTTAACAAC  
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TCAGAATATTTCTTATGGTTT

>439.1

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GAGGAAAGGCTGTCTCTTTGATCCCATACCATGCAGGGGCAAATGGCTG

>440.1

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>441.1

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ATTCTTGGTGACCTCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGA  
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CCGCGTACTGTTCTGTCAGGTTAAGGCAGGACTGGAACCTCTCCACAGCT  
TGCACATAGTTTTAGATTCAACACTAACTTCTCCGAGTTTAAGATGTGC  
CTGGGCAGCATAAAGCTGTGCTTCTTTGTTTCTTGCTTTTAAAAATGA  
TCTTTGCTAAATCCAGCATATCCAGGCAAGCTCTAGGTTCCCAATCTCC  
TCCTCTCATTTTCTTGAAGAGACTTGTTTCAAGGACTGAATCATTGG  
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TTTCTTCAACCCTCTTTCATCTGGTCTTCTCTCTCTTGGGGCTCTTCATTA  
GCAGCTA

>442.1

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CCCTTCTATTAGCAGCCAAGGAAAAGGGAACATGAGCTTATCCAGAACG  
GTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTATGAAATATGCCTC  
ACACTGTATAGCTCATTATAGGACGTCAGGTTTGTTGAAAAAGTGGGCA  
AGACATGATTAATGAATCAGAATCCTGTTTCATTGGTGACTTGGATAAAG  
ACTTTTTAATTTAAAAAAAATATTATGGAATAGGGT

>443.1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAG  
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GATACCTACAGGTTCCATTATTACTCACAGCGTTGTGGTCCGGGTTCT  
CGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCGCGCTCGGGAC  
CCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCCTCTTTCT  
CCCATTGTTCTATGAGGTGGGTGGGGACTCCAAAACCCGTAGCTCCTGC  
CCTACTAGGCCACTCTACCCATT

>444.1

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCC

Table 3

GACATGTTTCGTAAGTGAGACAAGCCAGTGCA  
>444.2  
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CTTAAGTAAAACGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCCAG  
ATAAAAAAAAAACCAGTTATGTGAGCGTTAGTCACTGCTCATTTCCAGGA  
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ATAAAGCAAAGAGCCCCGCCACAAGCCAGCA  
>445.1  
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TATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGG  
GTTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTG  
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TGAGCTATCCCATAGTTCATTCTCAACGCTTTTACTGCACTGTTTAGGGT  
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>446.1  
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A  
>446.2  
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TGAG  
>447.1  
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GAAAGCAGTG  
>447.2  
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GATTCTAATAG  
>447.3  
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>448.1  
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TCTCAGTCTTCTA  
>448.2  
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CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAATGC  
ATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCCCT  
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG  
TTGGGATCAGACAGTTAACTGTGGGATCCAGAACTCCTTGTAATGCTG  
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG  
>449.1  
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TTTTTCAGAGAGTGGTGCAGCGCCAGACATTTTGCACATAAGGCACCAA  
CAGCCCAGGACTGCCGAGACTCTGGCCGCCGAAGGAGCCTGCTTTGGTA  
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Table 3

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>450.1  
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CCAGTCCTGTGAAAGACAAGTCTGAATGCTCCACTTTTCAATTCTCTC  
TCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACA  
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>451.1  
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ATCTGGACCCAACTAAAACAA  
>451.2  
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GAAACTCTGAGGTGGTGA~~T~~TTCTCCAAGGTCATGGTTATGAAGCTCAAT  
GAGGGCCTGAATTGCTTCTTCCACAGATCCCAATTGAATGAGCGCCATT  
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>452.1  
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GTTTCATTTGGTCTATATTATGTATACATAATTTATCTATTATATATT  
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CATATCTAGAAGTCTCTTCATAAATTAATAAATAATCTAGGGCCAGCATT  
ATGTTTGCTAGACCTGGATTTGGCTCAATACTTAAAGTTAAAAGTTTCTG  
TCTTTTTCTTGGACTTGAAACTGCCTAGAGCGTCAGTCTCTCTGTTATT  
TTTTCTATTTTCTTTTTCCCCATCAGTCTTTTAGCCACTTGAAGCCAA  
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A  
>453.1  
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>454.1  
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TCTCCAGGACCAACTCTAACCCAGGGAGGGGAACTTGGTCGGTGCAAGC  
GGTGGCTTGGAGACAGAATCATCTAATGAAAAGATACACTAGAAGGCGC  
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>455.1  
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>456.1

Table 3

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TCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTGGACAGGTGTTA  
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&gt;458.1

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&gt;459.1

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&gt;460.1

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&gt;460.2

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&gt;461.1

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Table 3

&gt;462.1

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T

&gt;463.1

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&gt;463.2

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&gt;464.1

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&gt;465.1

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&gt;466.1

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&gt;467.1

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&gt;468.1

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&gt;469.1

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&gt;470.1

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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&gt;563.1

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&gt;564.1

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&gt;565.1

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&gt;568.1

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&gt;572.1

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&gt;573.1

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Table 3

&gt;576.1

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&gt;577.1

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&gt;578.1

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&gt;579.1

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TGATAGGGTTTTATGGTTTGGGAAAACATTTTTAAAAAATGGACTTAT  
CTCTATTATACAGAGTTATAATATAAAAAATGATTTAAAGGCTATTTTT  
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&gt;580.1

ACCATCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTG  
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CCAATTTGGAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTT  
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&gt;581.1

AGGGCCGGTTTTGCCGTTATTGGGGGCGCCTCTTTTCGCTTTTCTCGCTT  
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&gt;582.1

TTTTAGAGATGAGCTCACCGCGGTGGCGGCCGAGGTACCAAATTGTAAAA  
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AGCTGCTGTGCGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGAAT  
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&gt;583.1

CAGACAAGCTTTTCAATTTTTTTTCAAATCCGACATCTACTCCAACATACAT  
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&gt;584.1

Table 3

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GTGGTTGGTTCTTTCTTCTCAGGCTTTCCTTCTGATGCTGAGATAGTT  
CTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCTGTACAAG  
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&gt;585.1

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TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCCTGC  
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&gt;587.1

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AGCTGTAGGCGTTTTAATTGGAAATAAGCATTCTGAGATAATGATAATAG  
CAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTGAGAATCCTCCT  
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&gt;587.2

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&gt;588.1

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&gt;589.1

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&gt;591.1

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ACAG

&gt;592.1

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&gt;593.1

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Table 3

&gt;594.1

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GCCCCGGGCAGGTACTTT

&gt;594.2

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&gt;595.1

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&gt;596.1

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&gt;597.1

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&gt;598.1

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&gt;599.1

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&gt;600.1

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Table 3

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GCCCTGGAGATTC

>601.1

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>601.2

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>602.1

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>603.1

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>603.2

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Table 3

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>607.1

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>612.1

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>613.1

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>614.1

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Table 3

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>621.1

Table 3

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Table 3

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>631.1

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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Table 3

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AGGACCTGGGGCAGCTGCTGCTTCTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAAAC  
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>728.1

Table 3

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>729.1

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AACTGCAGGCATTAGGTTCTCTACACACGATATATTACAGGGAAATGGC  
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>730.1

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>731.1

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>732.1

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>733.1

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>734.1

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>734.2

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>735.1

Table 3

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CCTTTAACATTTTATTACAGGATCTCAGCTCAGCCAAGTCTCAGCCAT  
TTTGTAAATGAGGATCACTTTCTTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCCTTTCTCTCTGAGCCTTCAACCGAGTCCCCATTGATGTCCGT  
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&gt;736.1

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&gt;737.1

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GCTGACCTAATGTATTTCCAAAAAGGAAAATTTCAACAAGTTGCCGCATT  
ATTCATGAATGAAATTAGATATCATATCAAAATTAAGAAAAGAAAAGC  
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&gt;738.1

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AAAGTGGCACTATTCAATTGTGTAGTTTTTTGTAACCTATATTTTACCCT  
AAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAATTATTCATGGCTA  
AATAATGCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTGTCA  
GCATTCTTTTATATATATCTTTCAGCACATCTGCAATGATTTCTTTGGAA  
TAAATTTCTAAAGTTTCGCTGGATCGAAAAGATTGAGGGATTTTATGTT  
CTTTCAATTTGGCAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTCTGA  
ATAAACAAATTCTTTTTATGTTGCATTTAAATCTACC

&gt;739.1

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CTCAAAATATCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATT  
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TCAGAGTAAAACCTGGCCTGCCCTCTTTCTTTCTTTACAATATTGACTCC  
TTTGAGGAACCGGGGCTGGATGTGGAGCATTTCTCATTCTATCTGATTGT  
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ATGACCATGTATTGGTTATTAGGTAACAATAGATTACTCAAGTAGAGAAC  
TGGGAAATT

&gt;740.1

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&gt;741.1

ACTTCAGGTTAGAGATGACTTCAATATATGTGCGCAGACCTCCCAAGGTGA

Table 3

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GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
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&gt;742.1

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TTTCTTGCATCTGCTATTTTCAAGTGCTTTAACTCAAAAAAATCAATA  
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&gt;743.1

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&gt;744.1

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GACATTCATTTCTTCTTCTTGATAAGACTCCTTGATAAGACTCGGTGT  
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&gt;745.1

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CATAAT

&gt;745.2

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CTG

&gt;746.1

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&gt;747.1

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Table 3

&gt;748.1

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&gt;749.1

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&gt;750.1

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&gt;751.1

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GATACCTGACCC

&gt;752.1

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&gt;753.1

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&gt;754.1

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CCAAT

&gt;755.1

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Table 3

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>756.1  
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>763.1  
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Table 3

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>764.1  
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>766.1  
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>767.1  
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>768.1  
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>769.1  
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>770.1  
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Table 3

CATGTTAC

&gt;771.1

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&gt;772.1

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&gt;773.1

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&gt;774.1

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&gt;775.1

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&gt;776.1

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&gt;777.1

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&gt;778.1

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&gt;779.1

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&gt;780.1

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&gt;781.1

Table 3

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Table 3

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Table 3

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Table 3

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Table 3

&gt;808.2

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&gt;808.3

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&gt;809.1

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Table 3

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Table 3

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>822.1

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CCTCACCACCTTTCCGATATGGACAGTTCTCATGCCCAGAAGCAAAACCT  
TCTTTATTGTGCCTGTCTCCCTTGACTGTCATGCATATAATCAGCATCT  
TTCCCACTAAGTGAAGGGGCCAGACTCGAGCACAGGAGCACAGCACCCCT  
TAAACTCACGAGGGGCTGCATTACACCATCAGCAGGGGAGATTACACTTG  
TGTCATTTG

>823.1

ACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTTGAGAAAGGGGACTT  
GAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCCTACG  
TTTGTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCC  
TGGGTTCTTAGGCTTCCCTCCAGGCAATGTAGTTGCCCTTTCTCTCCCC  
GCGTACATAGTAAGTGTATGATAGATGTTTGATTTGTAAATTACAAATAT  
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>824.1

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AGATATTAGATGATGACATCTAAGTATTTAAATAAGGAGATATTAATGA  
TGAATCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGT  
GGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATTTCTT  
GCAGCTTCGCCGACAGAGGTGACCATCTGCAATTACGAAGCATCTGCCA  
ACCCAGCAGACCATAG

>825.1

ACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATCAGT  
GGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGTTGG  
ACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGT  
TAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAG  
AGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCA  
CAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCTCAT  
GTGTATGATGTG

>826.1

ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAAC  
TGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCT  
GTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGAC  
ATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATGATC  
TTTCCCTAATTTTCATGAGCATCTTTTTTCTGATATAAACCAGGGAGGGA  
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**Table 3**

&gt;827.1

ACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTTTT  
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GGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTT  
TTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTT  
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AGGGGAAATAAAAATTCCAGAAAGATGAAAATTGTTGATGTAAGATGGA  
GGCACA

&gt;828.1

ACAAACAAGCTTTGTTAAACTAACCCTTGCCATCCTGGCTACTTTACCCA  
ATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGTTTG  
CTATTCCTTTGTTCAATCTTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
TGTTTTCTTTATGAAGTTTCCCAGGCCATACAAAACCTTGTTAGCCTATC  
TTCTGTCAGTTTAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGG  
AGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAGTGAAGTGAAGT  
TCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGACGACAGAAATACC  
GTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTATA  
TATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTTGATAT  
TATTTACTTATTCCTTAC

&gt;829.1

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA  
ATACTTTCAGAAATGATTTTTACTACTGCAAGTTTTGGTCTTTAAATG  
TCAAGTAGCATCTCTCTCTTTCTCTCTGTCTCTTTCTGTTTCTCTCTCCA  
GTTTTTTTTTTTTTTAATTTCCATATGGGCTAAAGAATCCAAATATTT  
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TTTGTTTTATGTAAGTGTATATATTCTTAGTTTTCTTGAAATCATTGTA

Table 4

&gt;1

NNNNNNNNCCACCTCCTGCGTTTAAAGCAATTCTCCGCCTCAGCCTCCCGAGTAGCT  
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AATGAGCTCTTCCATTAATAAACAGTGATAAGATTTATGAGGTTTACAAGAAAGAGTAAGGCA  
TGGTAGATGATGTGAATGAGCATATACCCTAATTCCTTGAGAAAACAAAATAGAAATACACTA  
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AAGGTGAGAACTTAACAGAACCTCAGAGGCTGAGTGGGATCAGATAGGCTAAGAGGGGTGGC  
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ATACAGGGTGATTGGGCTTGGATACTCCGATTAAAGAATGGTAGGGAAAAAACTAGAAAGAA  
ATACAGAGGCTAATCGAAGTCTCAAATCCCAAACATAATTTAAATTTTCATGTATAGAAAA  
ATGGACCTCGATCTTTATTCTACCATAACATATAATTCCAAATTCCTCAGTATGTCCAAAAAA  
AAAAAAAAAAAAAAAAAGTACCTCGGCCGC

&gt;2

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
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NNN

&gt;3

&gt;4

&gt;5

NNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCAGCCAGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
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Table 4

CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
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&gt;6

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&gt;7

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Table 4

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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTATGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTACG  
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NNN

&gt;8

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CCTTTTGAGGTCCACGAGAATATATAAGCAATTTAAATGCTACCAAAGTGAACGAGTATTT  
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TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAAGTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAAGTAACTCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
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AATCTATTCTGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
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GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTATGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTACG  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAAGTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTACGANNNNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;9

Table 4

&gt;10

TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCA  
AAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTTTGTATTTGGACTACATAAACTG  
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GTAAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTAGGATTGTGATCTGAGCTTTACT  
AAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTTTATTTATACCTTAATGCCCCGGAGA  
GGTAATATTTTACTTTAAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAACACTTCTTT  
TGAATGTGTTCTGATCCTTGAAAAATGTGGGGCAGGGGGAAGGGGCCTAAGAGCTGAGGAC  
TGTGGGTCAGACCCTCATGCCATGGGCATAATGAACATATCAGAGAAGACTAAGACTATGGT  
GAGAGAGAAAAGAAAGATTGAGTTCCTTTCCCTCCGAGACAAAGTCAAATGATAGATTTTGC  
CTTTACAACATAAGTCATGTGAAGATTTTAACTCAGACATCAAAGAAGGTCTGCCATATTAT  
AGTAAGAGAATTAGTGAAACAGTAGGAAAAAGGTGATCTGGGGTTCGAAAAGCTAGGGCAA  
NNNNNN

&gt;11

&gt;12

&gt;13

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTGGTAGTGTTCCTGATCCGGAGCCAGTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACACGNNNNNNN

&gt;14

NNNGCAGCCTGGCAGTGCAGTGGGGCACGTCCTGCTGTGCGCGTCGCAGTCGCG  
CGGAGCCCGGCTTCCGACGTGCAGCCTGGCAGTGCAGTGCAGTGTCTGGCCTTTTGTCTT  
GATCCTTGGTTAAGGAAATGACCAACCAGTACGGTATTCTTTCAAACAAGAGCAAGCCCAT  
GATGATGCCATTTGGTCAGTTGCTTGGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGG  
TCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCT  
ACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACACCCT  
GCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCA  
AACAGATAAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGAT  
TCCCAGTATCTGGCCACAGGAACCTCATGTCCGGAAAGTGAACATTTTGGTGTGGAAAGTGG  
GAAAAAGGAATATTCTTTGGACACGAGAGGAAAATTCATTCTTAGTATTGCATATAGTCCTGA  
TGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTTGTATTGCAACTG  
GAAAACCTTGCATACCCTGGAAGGCCATGCCATGCCATTGCTCCTTGACCTTTTCCCCG  
GACTCCAGCTCCTTGTCACTGCTTCAGATGGCTACATCAAGATCTATGATGACAACAT  
GCCAATTTGGCTGGCACGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTC  
CTGATGACACTCACTTGGTTTCCAGTCGTCTGACAAAAGTGTACAGTTGGGGCGGTTGGAC  
CGGGGCTTGTGTTACACCCCCCTTTGGATACAGGCGGGGGGTAACAGGAGGTCAATGG  
TTGGGAAGCGAAATTGATGGGAAAAACCGTTTGAAGGGGGGGAATCCTGGGAAAATGGAA  
TGAAATTGGGGTATAAATGTGGGGGTGTTCAATATANN

&gt;15

NAGAGAATTTGCAACACGTGGTAGTGAAGTGTGAGGAGTTTGAAGGGTCTGAAGAC  
TGAAAGAGTGAATGGTTGTTGGCAGGGTGTCTGGTGGATGGTTTCTGTAAGTTCAGATTCT  
TCATAAATCGTGTGAGCGTCGCCGACACCTCTGAGATAAAAGGGCCCCCTTTCGACTAGCCTC  
TGCTGAAAGGACCTAGAAGAATCCCTTAGGATGAAGCTGAGTCTTACCAAGGTAGTTAATGG  
CTGTGCGCTAGGAAAAATAAAAAACCTGGGCAAAACAGGGGACCACACCATGGATATTCCA  
GGCTGCCTTCTGTATACCAAGACTGGCTCCGCCCCACACCTCACCCATCACACGCTGCATA  
ATATCCACGGGGTTCTGCCATGGCTCAGCTTACGCTGTCATCCCTAGCAGAACATCATGAA  
GTCTTGACAGAATATAAAGAAGGAGTGGAAAGTTTATAGGCATGCCAGAATCACTCTTGATC  
TGCTCCCTGCACGATCCAGTCAGCCCCGCCCCGGCTGGTTATGTAACAAACAAGTCTGTGT  
CTGTGTGGAGTGTGTCAGGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAG  
GCCCTTCAGCCAGACTGGTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAA  
CTTCCATAAAAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGC  
GGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGG  
AGATGTGATGGAAGAGAGGCTGAGGTGAGCACGAGAGACAGCCAAGCGGCCTGTGGGTGG

Table 4

CTTCCTTCTGGATGGTTTTCAAGGAAATCCAACAACCCTGGAGGCTAGACTACGCTTGCTGT  
CATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGTCGGCC  
AGGTGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATC  
AAGTAACAGAGCGGGGATGTGCCCTGACTTTTCACTTTTATTACCAGCCGAATCCTGAAGAG  
ACACTACTACAACAAAATGGAACACAAGAAGAAATAAAATGTATGGATCAAATAAAGAAAATT  
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GCATACATCCACCATCTGCTGGTGACCAATGAGCTGCTGGCCGGAGTCTGCTTATGATGC  
ACAACCTTTGAACACTACTTTGGGTTTTTCCATTACATCCGGGAAGCACTAAAAAGTGACAAAC  
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&gt;16

CGGTGGCGGCCGCCGGGCGAGGACGCGGGAAGAGGTAATTTTAAATGCCATTTTCA  
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AGGGGTGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAACCTGGG  
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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;17

&gt;18

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&gt;19

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CTTCCTATTTGATTTAGTGGCTGATCAATGCCAGTTACCAATTATTGGTAGCCCCATTTATAC  
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&gt;20

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GCAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTTGGTT  
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&gt;21

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&gt;22

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&gt;23

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAG

Table 4

ACGTTGATAGGACCAGACCAGACCAGGCCCTTG TAGGCCATGGAAGGACTTTGGATTTTACA  
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GGNN

&gt;24

NNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
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GGGCAAAACCTGAAGTCTGCTGGCTATTCTCCACTAACAGTCGAAGCTTGTTCAATACATCC  
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AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTTGGCTGCTGTGGCTCATGA  
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&gt;25

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&gt;26

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Table 4

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NNN

&gt;27

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GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
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CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT

### Table 4

AATTTGGGTCAAGTTAAGATATTAAAAGTTCCTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

>28

>29

**>30**

>31

**>32**

CGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATG  
GCAGTTTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCCCTGGGC  
CTTCTTCTCTCTGTCAAAGGCCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG  
AGCTGGGTAAAGCTGGGTGGGGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAA  
AGGATGTAACACGGGGCCACATCTATGCCAATCCCAAGGCAGGGAGGCAGGGAAGTGG  
CTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACCTCAAGT  
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CAGCGCTTTCTTCAAATCTTGCACATGTTATATTTAGAGGCAAGTTCAGTTCTAGAGGAGC  
TGGCCTGCCCCACAGACTCACCCCTCAGTCCCAGGCTGACCTTGGTGCCAGAACTCAGGA  
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**>33**

CGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATG  
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AGGATGTAAACAGCGGGCCACATCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGG  
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>34

ACCAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTTGCCACTTGCAAATTCGGT  
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GTCCAATTTGAGAGATTTTTCTGAATCCAGTTAAAATAATTTTTGGCTACACCTGGGGACAC  
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ACTCAGAGTCTGCAATTTTCTTCATAATTAATGAGTTCTACTTAATGGGGCTGTCAC  
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ATCCTGATGTTAGAGATTTTCTTCCAAGGCAAATAGAAGTTTCACCNNNNN

**>35**

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CCTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAACCAATCCTTGTCTTCGTGGATGGTACCCTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGCTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
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Table 4

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CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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NNN

&gt;36

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&gt;37

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&gt;38

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&gt;39

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Table 4

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>40

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CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCGAATGGCATC  
AAAGAAAAGCATGGATTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
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CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
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ACGCGGAACCTCTACGCTCGCGGCTTCCATGACAAAGACAAAGAGTGCAGTTGTAGGGAGT  
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TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
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GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG

### Table 4

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Table 4

TTCTTCTTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAACTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
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NNN

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NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
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CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
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TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
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CATAACATTTAGAATAATGATGTCAATTTTTTACAACTGAATTTATTTCTAGTGCTTTACTTATA  
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NAGTATTGGTTCTGCTGGCAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGC  
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Table 4

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NN

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GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
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CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
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Table 4

GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
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AAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACGAC  
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GGGCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCTTGAAAAGGACATTTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
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CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
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CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
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NNN

Table 4

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TTCTTTTACCTTTGCCGAGGCAGGCGTCGAGTACACGTGCCCGCAGTTGGTGAGGCTGC  
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NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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Table 4

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AGAAAATCGGTGAACCTTTTGCTCTAAGGCACCGTATAAACTTGAGTTCAGACTTCCTGATTA  
CTCCTGATTTCTACTGGGACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTC  
CTTAGCATTGGCCGAAGAGTTAAGGTCAATGAATGAAAACTTCAGCACTGCATGGAACATAAC  
AGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTCCGCTTGAGTGGATGATTGTC  
ATCCTCATTACCATAGAGGTAATGTTTGAGCTGGGACGAGTATTTTTCTGATCAAGTGAATAAC  
CAAAGTGTCACTGCAAGAGATATTCAAGTTCTACAATCAAAAATTAATGTTTCGGCCCGGCG  
CGGTGCCTCATGCCTGTAATCCAGCACTTTGAGGAGCCAAGAAGGTGGCTTGAGATGAG  
ATCAGGAGCTCAAGACAAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACCAA  
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GCCAGGGCAACAGTGAGACTCAGTCTCAAAAATAAACAATAAAATAAATAAATAAATGAATGT  
NNNNNNNNNNNNNNNN

&gt;55

&gt;56

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
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ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATAACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
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TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
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AATCTATTGAAATCTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
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CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAAGTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA

Table 4

CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
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AATTTGGGTCAAGTTAAGATATTAAGGTTCCCTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;57

&gt;58

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CAGGTCCAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAT  
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TCTCAGGAAACCCCTTCAACTTCGTATTATTCCTGAGTAGTATGGGGTAGAAAATGAGT  
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&gt;59

NNNNNCCGAGGGACGCGGGGAAAGATCAGTTGTTTTACCTTGGCATTCAAAGACTTTT  
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&gt;60

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CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
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TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
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CTAACAATCCTGATGTATAATTTATTTGTTACTTTTGAATTTGAGAAGTCTACAAATAAAAGTGCT  
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TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT

Table 4

CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGGTTCCCTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;61

CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCTGATTTTGTAGTCTCTGTTCT  
GCCCTTTGGAACATCTCTTCGGTGTTCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAA  
TAATCTGTTCAATAAATAATTTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGAGGCTC  
CTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAGGCTGAAGGAT  
GGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATGCCA  
CAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAG  
GGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCT  
GGCTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAATTGACTTTAAC  
CCACAGCCTGTGTGCACCTAGAAGCGGATGCATTACAAATCTCCAGAAGGGAATGGAGC  
CCCATTGACACCTTGATTTAACCTTCTGAGATTCTAAGCAGGGAATCTAGATGAGACACGCT  
GTGAGATAATACATAGGTATTGTTTAAAGCTGCTAAATTTGTGGTAATTTCTTATGACAGCAAT  
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&gt;62

&gt;63

&gt;64

&gt;65

TTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTAGTCTCCTGATAAGGGGGTGA  
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GCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATACGAGCGGGCATGACACTTACTCAC  
GTCATTCACCATNCTCGNNNNN

&gt;66

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&gt;67

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GATTCACAGGC

&gt;68

&gt;69

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AACACTGCTGACCATGATCAGCGCAGCCTGGAGCATCTTCCTCATCGGGACTAAATTTGGG  
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Table 4

ATTTGACAGAGCTGTCCCTGGTGC GGAATTCCTGACTGCTGCACCAGTAAACCTTCCAGG  
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GGGTATCTTTGATGATTTGGACAATATAACACAACCTGATTCTTCGCAACAATCCCTGGTATTG  
CGGGTGCAAGATGAAATGGGTACGTGACTGGTTACAATCACTACCTGTGAAGGTCAACGTG  
CGTGGGCTCATGTGCCAAGCCCCAGAAAAGGTTTCGTGGGATGGCTATTAAGGATCTCAATG  
CAGAACTGTTTGATTGTAAGGACAGTGGGATTGTAAGCACCATTGAGATAACCACTGCAATA  
CCCAACACAGTGTATCCTGCCCAAGGACAGTGGCCAGCTCCAGTGACCAAACAGCCAGATA  
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ACAATTACTGTGAAGTCTGTCACCTCTGATACCATTCATATCTCTTGAAACTTGCTCTACCT  
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CCCTATAAAGTATGCATGGTTCCCATGGAAACCAGCAACCTCTACCTATTTGATGAAACTCCT  
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CTGTGGCCCTGGTTACCATTGCCCTTCTTGCTTTAGTGTGTTGGTATGTTTCATAGGAATGGAT  
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&gt;70

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CCATCTTCTCCAGTTCCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGT  
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GTCCACAGAGCAAAGCATCTTCTCCACCGATCCCGGGGTCTGGGCGACGCCTCTGGATGA  
CAAGACAGACTGAACTAAATTAGAGTATTTTTCTTGGTCCACTTCTTCATATGGGTTCACTTT  
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Table 4

GTTTTCACTTTAGTCTATTTGCAACGGTCGAAGGCCTTTATGTTTGTATTCTTGGAAGCCAC  
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>71  
GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGGATAAGAAATTAAGTGTG  
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ATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACACAGG  
GATTCACAGGC  
>72  
>73  
>74  
ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAATAAGATCAGAGCATAGTAGAGAA  
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AGAAGTGAATAGACCAACCAAGCCCAACCTTCTTAAAAGTAAGACTAGGTGCTTCCTGAT  
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GAGGATTTTCATTTTCCAGTCCCCCACCCTTTTCATTTTGGATGAAGTGCACATGTTGTGG  
GAGCCACTGGTGGGCCCTCAGACACGAGCAATCCTTCTGGCCACTGCCAGTGTCTTAATAA  
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>75  
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>76  
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TCTCACCATGATGTGAAGAGTTTCACAAATCTTCAAATAAAAAAGTAATGACTTAGAACTG  
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Table 4

TTGCACACACACCTGTACACACACACCGGCATGTTTATACACAGGGAGTGTATGGTTCCT  
GTAAGCACTAAGTTAGC

>77

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GACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCC  
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GACCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTTGCCACCTGGCTACTAGTG  
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>78

>79

>80

>81

GGTGGCGGCCGAGGTACAGCCAACCCCCTAGGTGTGGACCAGCTGAGGCAGGTG  
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CATAACTTTGTGTGACGAGACTGCACAAAGACAAAGCTCAGGGAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAGCAG  
CAATTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCACCACTGCCCAAAG  
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>82

>83

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>84

>85

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>86

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Table 4

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>87

>88

>89

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>90

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>91

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>92

>93

>94

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Table 4

GCACTTTGTGAGTGTGCCCTCCAGACTCCTTATGACAGCTTAAACTAGGGATGTTGTCTGT  
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&gt;95

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&gt;96

&gt;97

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Table 4

&gt;98

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&gt;99

&gt;100

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&gt;101

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&gt;102

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&gt;103

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Table 4

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&gt;104

&gt;105

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&gt;106

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&gt;107

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&gt;108

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&gt;109

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&gt;110

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&gt;111

CGCGTCAGTCAGTCTGACGGTCAGTGGATCGGTGGGTTTATCTCAAGGCCTGAGTA  
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CGTAGAAGGGAGCGGGTCCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGG  
CCGCGGTAAGCAGTGGTCTGATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGT  
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Table 4

TTGGAATCATGAAACACAGACACTGGTGAAGACATTTGAAGTATGTGATCTTCCTGTTGAG  
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AGTGTTCAATTACAATACTCTGGAGAGAGTTTCATATGTTTGAAGCACACTCAGACTACATTG  
CTGTATTGCTGTTTCATCCAACCCAGCCTTTTCATTCTAAGTACAGTGTGACATGCTTATTAA  
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NNNNNNN

&gt;112

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&gt;113

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&gt;114

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GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCCGAGGTGGGAGGATCACT  
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NNNNNNNNN

&gt;115

NN  
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GAAGTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGCATGGAAC  
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AAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGAATCCCTTACATCCTCCACCATCT  
GGGTAAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACCCTTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
TTCTTTTCACTGTGCTCCTGTTCTGGGAACAGCACAAGACTCTGCCTGGCTGGCACATGTTA

Table 4

GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAGAGTGA CTCTCT  
GGCTTTCTCCTCTTCTCCTCCTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCTTAATCTCCA  
TGTCTCGGACATAGGAATCCGGCCGCTGCATCTTACCTTTTTTCCCGTACTGGTATCTATC  
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CAGCATAGGGCGCCGGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTACCA  
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GCAAACCTTGGCTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTTAGTTGGTCGGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACCTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAACTCATCTCAGCCCCCTCCGGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCCGAAGCCAAGCAGATCGAAGGTGTGCAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCCGCCCCCAAACCATGCACCATACCAAGGGGGTG  
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TGAGACATGGAAGTGGGGCGCCACGTGGGGAGCCAGGTAAGTCAAGCCAGCCTTGAGACTGC  
TGCTCCAGATCATCGGCCATAGTAAACAAGCCTTGCCAGGTCTGGCGAGCCCCGCCAGCC  
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&gt;116

CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGTGGT  
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CGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCCTCGGC  
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CGAN

&gt;117

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&gt;118

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Table 4

AGGAAGGGGAGACGAACAAACACGAGGGGTGGGGAGAAACAACACCAAGCAGAAGGGAG  
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&gt;119

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CGCCGCGGTGCATCCTGGGAGTTGTAGTTTTTCTACTCAGAGGGAGAATAGCTCCAGACG  
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&gt;120

&gt;121

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ANNN  
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&gt;122

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CCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCATTACATCACTGCTTTTATTATTAA  
ATTGAATGTTGGCTGGAAACAATTTTAAACCCCAAATTGTGACAAACAAACTATATGAAAAG  
GNN

Table 4

&gt;123

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ACCGCAGACTAACACGAAGAGAAAACCCAAGTATAACATCAGATATGCGTGGACCAAAGCCC  
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&gt;124

&gt;125

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&gt;126

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TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
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Table 4

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CTAACAACTCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
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NNN  
>127

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NNNNNNNNNN

&gt;128

&gt;129

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GGAG

&gt;130

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Table 4

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&gt;132

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&gt;133

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&gt;134

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NNNNNNNNN

&gt;135

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Table 4

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&gt;136

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&gt;137

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Table 4

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N

&gt;138

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Table 4

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&gt;139

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AGCTCCAN

&gt;140

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&gt;142

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&gt;145

&gt;146

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GGGAGTGATCTGACCTCTTTCACCTACCCAGTGATGACATGGACAGCATCATCTTCCCAA  
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Table 4

GGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGGAGATGGAC  
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CCGGAGTTTTTCAGTCTAGAAGGCTTGACAGGAGGAGCTGGTGTGCGAAACAAGCCATCCTC  
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&gt;147

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&gt;148

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AGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACC  
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&gt;149

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&gt;150

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AATGAATATTGAGTCTGATTAGATCTTCCACTTGACAATGACTGTCAATACCTGGCTAACAA  
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NNNNNNNNNNNCAGGAAATCATCAATCGCAGTAGCAGTGAAGCAAATCAGGTGGTT

Table 4

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&gt;155

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&gt;156

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Table 4

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### Table 4

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Table 4

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>160

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Table 4

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NN  
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GATCCN.

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NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
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Table 4

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ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
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Table 4

GGGCCCAGCCCCAGGCTGCAGCCCATTTCGAGGCCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCCTGGAAGGACATTTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
GTTTCATCAGATGTTCCACCATGGCCACCGCAGAACACCGAAGTAATTCAGCATAGCGGGGA  
AGATGTTGACCAAGGTGGAGAAGAATCACGAAAAGGAGAAGTCACAGCACCTAGAAGGCAG  
CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTTAACTTTTTTATTTGTAACTAATAAAGGTAATCACAGCCACCAACATTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACACGGAGAC  
TCATCGTTATAATTTACTATCTGCCAAGAGTAGAAAGAAAGGCTGGGGATATTTGGGTGGC  
TTGGTTTTGATTTTTGCTTGTGTTGTTTGTACTAAACAGTATTATCTTTGAATATCGT  
AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAGTGCAATATGACACTGACACTATATTAATTCATAATACNN

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CACTATTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTGCGCCAGGCTGGAGTGCA  
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AGCCTCTGGAGTACGCTGGGATTACAGGCATGCGCTACCAACAGCCAGCGAATCAAGTACGCG  
GGGGAGACATCCCTCAGTGCTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCT  
CAGCACCATGAATCAAACCTGCCATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCAT  
TCAAGGAGTACCTCTCTCTAGAACTGTACGCTGTACCTGCATCAGCATTAGTAATCAACCTGT  
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GATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCA  
TCAAGAATTTACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAAACCAGAGG  
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AAGCTATTCAGTAATAACTCTACCCTGGCACTATAATGTAAGCTCTACTGAGGTGCTATGTTT  
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&gt;166

&gt;167

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NNNNNNNGGACCCGGCTGCGGTGGCTGCGGGACTGACGCGCCACCGGAGCAGGC  
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Table 4

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>170

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>171

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>172

NCGGGAAGTTCCAACCTGTGGCAGAAATGAAGATGGAACCTTCTCAAGAATAAACAGTT  
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GCACTCATCCCCTAGATATCCCCCAAGTGTCTCTCTTCCCCTTTGGTCAAGGTTATAACTGG  
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CCCAGGAACGATCATCAACACCAATGCAGCTATCCCGGGACATGTCCACATCTGCCACTCCT  
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CTGTGTCN

>173

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ACTGCATGGTGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGAG  
ACATAAGGAGAGACAAAAACAGGTTTGTGCCATAAAGTATTTTTTCAAAGACACCAAGATGTG

Table 4

GTAATGAAAATTATTAGTTCACTTCCCTGCTGCCATGAACTTTGCCTTAAGAAGGTGCTGG  
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 AAGGAGAAAAAATAATTTGACCTAGTAGTATAAAACATGAGGCTTTAATGGTACTTTGCTATG  
 AAAAGAAAACACTGTATTCCTTATGCAAAACACATGTATCTTTCATTATTTATAAGTGGGCCTC  
 TCTTAGGCTCAGTACTCAaTCAiACGTAGTATtttttaAAATAAttTATATc

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AGGGAGTCCGCCCACGCGTCCGCGGGTTTTAGTTCCTCGGGGAGCCCCTGGTGC  
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 CCAGGACACCCGGAAGCCGGAATGGACTCAGTGGCCTTTGAGGATGTGGCTGTGAACCTC  
 ACCCAGGAGGAGTGGGCTTTGCTGAGTCTTCCAGAGAAGAATCTCTACAGAGATGTGACGC  
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 GGTTGATGTAGTCGGGGGAAACCTTGATTCCCGTTTTTCATTTCGTAGACTCCGGAACCTC  
 ATGTACAGGGAAGCTTTCGAGACGGCAAAATCCCN

&gt;176

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 TAAAGCAATCTGTTCTTTCTCTCCTGGAAACCTGGATGACACAAATCATTACAAGTATCTTC  
 AACTGGCGTATGTAAGTCTGTGACCAAGTCTTCACTGCTTCCACAGTTGAGTTTTCTT  
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Table 4

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GATGAATTAAGTTGGGCTTCAGGAGGCAGCACTTTTTCAGGAGGAGT

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TGGCGGCCGCCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGGAATATT  
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&gt;179

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&gt;180

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Table 4

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>181

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Table 4

GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTG  
ACAGCTGAACCCGCCAAAATCGGACNN

>182

NACAGCTGGCGAGTGTACCCGTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
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GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTGTGCCCAA  
ATCGACGAAAAAAAAACACTGGGAGAGCCGAACATAAAGTCTTTAGCACGGGTACCAGCC  
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GAAAAAATTCGAAGCCAGCCTGAGAAGGGCCCTATTTCAATGCTGTTAACCAGTGAGACTG  
CATCCTCAACAGTGAGACAGGATGGACCACTACTCAAGCTCAAGGAAACATCTAACACCG  
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CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
GCCCAAATGAGAGGACACCGGCCGCTTGGTTGTACGGGACAAAGAGCATCGCCATCAGA  
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CNNN

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tatAGGGAGTCGACCCACGCGTCCGGcCAGAGTAAAGCAAAGAGAAAGGAAGCAGGC  
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TCTGTCTCCTCCCATCGGGAGGAACAGAGAGCCAGGACCAAAGCTCCTTATGTAAGCAACC  
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Table 4

GATTGCTTTTAAATAAATACCAACTAATGAATTTACTGCTAAGCTCAAAACCGICTACGCTTAA  
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 ACAAGTTTGGCAATATTATTCTTATATTCTGTTTCATGAGACTTTAACTTCTCTTTATAAGATC  
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 TCCCTTCCGCTCCCCGCGTACCTCGGCCGCCac

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NACAGCTGGCGAGTGTACCCGTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
 AGGAAATTAATTTATGTTCAAGCTAAATGTCGTTTATGGCACTGGGAACACAAGCATTGTGC  
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 TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGTCAGTGGCCTCAGGGATATGGAATTAAG  
 ATCCACCTGGTGTGATGAATAAACCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACT  
 GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCAA  
 ATCGACGAAAAAAAAACACTGGGAGAGCCGAAGTAAAGTCTTTAGCACGGGTACCAGCC  
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 CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
 GCCCAATGAGAGGACACCGGCCGCTTGGTTGTACGGCACAAGAGCATCGCCATCAGA  
 GGTAGGGCATAGAACATGACTACTACGCGGAGGGCAGCACAAACGCAACACAATATATACAG  
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 CNNN

&gt;185

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 TAccgctttcatgctgttctcaagtgtggccacctaactgctga

&gt;186

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 GTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
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 GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTGATC  
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Table 4

CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
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CGGCTACAGAGTGAGGGGCTTGGACATGCTCCGCTGCATTGACTCTGGACACTGGTCTGCA  
CCCTTGCCAACTGTGAGGCTATTTCTGTGTGAGCCGCTGGAGAGTCTGTCCACGGAAGCA  
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CAGCCTGGATTGTTCTGACACTCGTGGAGAATCAATGTTGGCTCCACCTGCCATTTCTCTT  
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Table 4

TTTAAATACCACTTGTTACTTTGGCTGCAACGCTGGATTCACTCATAGGAGACAGCACTCT  
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CTGCAGAAGGCCAAGAATCAAGCTAGAAGGCCACATGTCACCGTGGACCTTCTGCCACCA  
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AAAAAAAAAAAAAAAAAAGATCTTTAATTAGCGGCCGCAAGCTTN

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NNAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
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GTCCTCAGACCAACCAGCCCAAGGAACATCTACCAATTTTTAATCAAGAATATTCTGTGAAA  
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ACNNNN

&gt;190

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GCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGCCCATCGTCTGGCTCCGG  
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Table 4

CGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCCAGGACCTGAACGCGCCTTCT  
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&gt;192

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NNGAGGATCCATTATCTTCTGTTTGCTTTGCTCTTCTGTTTTTGGTGCCTGTTCCAG  
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AAGTAAAGT

&gt;196

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CAAACACACTTATCTGTCTCTTCTACAATTGTGGTTTATTGAATGTGATTTTCTGCACTAATA  
TAAATTAGACTAAGTGTTCATAAATCTAAATCTTACGATGATGTGTTGTGTATAATTGG  
AGTAGATATTAATTAAGTCACCTGTATAATGTTTTGTAATTTTGCAAAACATATCTTGAGTTGT  
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NACTTGGTGTGTTGTCCCCCGGCGAACACATTTTGGGGTGCGCACACTGGCCCTG  
GTGGCGCGCTTCTTTTAGGGGGCCTGTGGCCACAGACAATGTTCTAACCGGGTAGTGGT  
GCTCTCTTACCCCGGTGGTTCAGATAACCAGGGGGCCAGGGTCCCTTCTTTTGGCCCTGTA  
GCACACCCGGTACCTTAAAGCTTGACCCGTTAAAGCTGTACTTGTAACCTGGGTACCTCGTG  
AACTGTCAAGGAGGCCAGAGCAGGAAAGGGAAAGGAATAACCCCAACACACAA  
GAGAGGCACAAATTAGAGGGCTGGGCACAGGCTGTAGCCCTGGGTGAGGGGGTAAGCAGC  
TTGACAGTTGCTGTGGTCTCTGGGATATAATTCTGCCAAGGCTAGAACCACAGAGAAGA  
GTTTGCACCTCTTAAGTCCAGGAAGGGGACTACCTGGAAGGCTGAGAACAAGGAGAAAGT  
TTAGCACACTAAACACATGGCCAGGACCCTAGGGACACAAGGCAGCTGGAGAGTGGGATCT  
CTTGTTAAATGGCATGGTAGGCAGATTAGAGTCTGGCTATAATCCCTAGGGCCCCAATCCT

Table 4

AGTAGTTACGTGCTAACCAACACATTACCCTGAGGCTTCTGGGAGAACAAGAGCCCTGAGG  
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Table 4

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Table 4

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Table 4

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Table 4

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ATCTCTGTGCCACCCCTTCTCTCATCGGATATGGAGTGATTTCTTCTCTCGCTGCTGCGACG  
CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAAAACACAAAGA  
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AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCCAGGAAGAAACAATTCCTCA  
CTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAAACAATCTG  
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Table 4

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CCAATCTATTTCTTCCAGCTTCTCTGTCGATCTTTTCTTCTGAGACAGTCTGATCAG  
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Table 4

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GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGCAACTACT  
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Table 4

ACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATC  
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Table 4

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Table 4

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Table 4

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Table 4

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GAACCCTGCTTCAGTTGCGAGATTTTTTAAACCGGTCAATAAATCTTCAAGAAATAGAAGCT  
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Table 4

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Table 4

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&gt;230

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Table 4

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ATTTAGGACCAATACCTCCTCCAGATCAGATTCTTCTTAAATTTATAGATTGTGTTTTTTTT  
AAATAGACCTCTCAATTTCTGGAAACTGCCTTTTATCTGCCAGAATTCTAAGCTGGTGCCC  
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Table 4

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&gt;234

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GCAGCTTTGCCCTCAAGGGAATTTAGCAATGTCTGGAGACATTTTTTATTTTCATAATTTG  
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Table 4

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&gt;237

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Table 4

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&gt;238

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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&gt;253

&gt;254

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Table 4

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Table 4

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Table 4

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>269

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Table 4

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&gt;276

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&gt;277

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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GGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAGTCCAGCAGGAA  
AATCTTCTGGCGTATTTTATTCTGATGTTTATAGTATATGCCTTTGAAGTGGCATCTTGTATC  
ACAGCAGCAACACAACGAGACTTTTTACACCCCAACCTCTTCTGAAGCAGATGCTAGAGAG  
GTACCTCGCCCGCGCGCCGCTCGACCGCCCGGGCAGGTACGCGGGGATAGTTCACTCACT  
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TGACAAACACACTTATCTGTCTTCTACAATGTGGTTTATTGAATGTGATTTTCTGCACTA  
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TGGAGTAGATATTAATTAAGTCACCTGTATAATGTTTTGTAATTTTGCAAAACATATCTTGAGT

Table 4

TGTTTAAACAGTCAAAATGTTTGATATTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCG  
CCACCGCGGTGAGCTCCAANNNN  
>307  
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CAACCCTCACGCAGAGATTCCAATCAAAGTCCAGCTCTGTGCCATGTGCCAATTGTCATCG  
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>308  
>309  
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Table 4

TGTGCTGACACTAATCAAGTCCTGTGAGGTTTAAATTATTGACCTATCCACTCTACCTCCATT  
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TTCCAATAAAGGTTTATAAAACAGTTAAAAAAGGCTCGAGGGGGGGCCCN

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NNCAAGCATTGTTGTGGTCGGTCTGTCCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
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ATCCCAGGTCAATCTTGCCATATGTAAATTGTTGTTCTATAAGAGTGGTACACTTGACAGTTG  
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&gt;313

NNNNAGCTTGGCACGAGGCCAGGATTTTTGAAAATTTTACATTCTTTACGGTTAAGCA  
AGATGTACAGCTCAGTCAAAGACACTAAATCTTCTTAGAAAAATAGTGCTAAGGAGTATAGC

### Table 4

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[illegible][illegible]

NNCAAGCATTGTTGTGGTCGGTCTGTCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
 CCCTCTCAACCCATGTTTTAAACGGACCACCGTTGGGGTTTTTGCCCCGCGGAGGGGGAA  
 CATGTAACAAGGGGAATCCCAATCCTCCGGAAGTTTCCGCAGGACCTTGTTGTCTGTTCC  
 AAGACGTTCAAATGGCGCTGTGGACCTTAGGGAGAACCTAAAGGCTCAACTCGTTTTCTTAT  
 CTGTTCTGTTCTGCTAAATTCTTTTTCTAAGATATCAATGGTTTCTTCCCTAATCTTCCCTTC  
 CTTTTGTAAGTTTTAATCTTTCTTCTTGACTTTTGTTTTTGATCCAAATTTGCTAGCTTATG  
 TTCTCTGTCTACTAGCTGATTCTGACTTCTTTCTCTGTTCTTCTTCTCTATTAATTGGGCA  
 ATACTTTTTTCATTTGTTGCTTGAGTGACTCATTCAACTTTTCACTGTCTCAATTTGTTTAT  
 CAGAGAACCATGTGATCTGTAATCTTTATCTTCTTTTCTGACTTTTCATTTCTCTGAAGA  
 AGTCCCATGTAGGATTTGTCAGTATTTCATGTTCTTCAGCCACAGACTCTAACTTCCTATTAT

Table 4

GTTGAAAGAGATGCTCAATATCACTCTGCGCTCTTTCTGATTCAACTTGCTGCGCCTTCAGCA  
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 GGCTAGAGCTTTTGTTCCTCAAAAGATCTGTAGCCTGCTTTCTTTGGAAGCTAATGTGGATAG  
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 GAGGAGTTAAACACTTTATTGATGTTGGAAAACCTGTGATTTGATGATTGCCAGGGCATTITTC  
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 GAGTTTTCAAATACATCAGCAGCAAGTTTGATAATTGAGAATCTGCAACCTTTGTTCCAA  
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 TAGCAGCATCTATGACATCCTCAAATATTTCTTGAACAACCTCCAATGCTAAAACAGAACAGT  
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 AACTTCTGTAGAAGTTGAATGCACCTGCAAAAACACCGAATCAGTGTGGCTGCTCCGACAAA  
 CCACTCCCGCCAGCACACTATTCAGATTATATGTATTCTGAAGACAATCTCTGGTTTCCATGT  
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GCCGCCCGGGCAGGTACAAGGTTTGGTGATGTAGGCGATTTTTTTACCACATTTCGA  
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 GGGAGCTCCAA

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&gt;321

Table 4

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
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&gt;327

TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
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Table 4

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GCGGGAGCCGGTGN

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ATGAGTCTCTTGAAGGATTTGGGTGAGCTTGATGCCCAGGGAACAACCCAACCGTCTTTC  
AATCAACAGTCTTGAAGTCCAACTTTTCCATTTGTTATGTTCCAAGACAAAGATGAACCC  
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CGTGGTTCAAGCCAACTGGCAGCATTTGGCCCAATCTCCAAATTAGAGCAAGTTAAATAAG  
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TCATTTCTTGCTTATGAGTGCCTGCATGGTGTGCACCATAGGTTTCCGCTTTCATGGGACAT  
GAGTGAAAATGAAACCAAGTCAATATGAGGTACCTTTACAGATTTGCAATAAGATGGTCTGTG  
ACAATGTATATGCAAGTGGTATGTGTGTAATTATGGCTAAAGACAAACCATTTACAGTGAAT  
TACTAATGACAGATTTTATGCTTTATAATGCATGAAAACAATTTTAAATAACTAGCAATTAATC  
ACAGCATATCAGGAAAAAGTACACAGTGAGTTCTGTTATTTTTGTAGGTTTATTATGTTTAT  
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GTTCCATGCATACCGGCATCATGCTAATATGTATCCTTTTAAGCACTCTCAAGGAAACAAA  
AGGGCCTTTTATTTTTATAAAGGTAAAAAAATTTCCCAATATTTTGCATGAATGTACCAA  
GGTGAAGGGACATTACAATATGACTAACAGCAACTCCATCACTTGAGAAGTATAATAGAAAAT  
AGCTTCTAAATCAAACCTTCTTACAGTGCCGTGTCTACCACTACAAGGACTGTGCATCTAAG  
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GAAGAGATCAGTAGTAAGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTTGAACTC  
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GAAGGTATTTCTTATTTAATTGCTTTTGGGATTACTCCACATCTTTGTTTATTTCTTGACTAAT  
CAGATTTTCAATAGAGTGAAGTTAAATTGGGGGTATAAAAGCATTGGATTGACATATGGTTT  
GCCAGCCTATGGGTTTACAGGCATTGCCCAACATTTCTTTGAGATCTATATTTATAAGCAGC  
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CATAGGTGTTTTGTAAGAACTGATTGCTCTCCTGTGAGTTAAGCTATGTTTACTACTGGGACC  
CTCAAGAGGAATACCACTTATGTTACACTCCTGCACTAAAGGCACGTAAGTGCAGTGTGAAGA  
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NNNNNNNNNNNN

Table 4

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GGGCTTACAGTGGCGGGAGTTGGAGGCGATAACGATTTGTGTTGTGAGAGGCGCA  
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GGATGGTCTTCAACAATACCTCTTCAATCCCTCTGACTGGTTATCAGTGCAGTGGTAATGAT  
GAACACACTTCTTATGGAGAAACAGGAGTCCCAGTTCCTCCTTTTGGATGTACCTTCTCTTCT  
GCTCCCAATATGGAACATGTACTAGCAGTTGCCAATGAAGAAGGCTTTGTTGATTGTATAA  
CACAGAATCACAAAGTTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGGAATGCCG  
TCTTTGACCTGGCCTGGGTTCTGGTGAACCTTAACTTGTACAGCAGCAGGTGATCAAACA  
GCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGCAG  
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GCAACATTATGGTCTGGGATACCAGGTGCAACAAAAAAGATGGGTTTTATAGGCAAGTGAAT  
CAAATCAGTGGAGCTCACAATACCTCAGACAAGCAAAACCCCTTCAAACCCAAGAAGAAACA  
GAATTCAAAAGGACTTGCTCCTTCTGTGGATTTCCAGCAAAAGTGTTACTGTGGTCTCTTTCA  
AGACGAGAATACCTTAGTCTCAGCAGGAGCTGTGGATGGGATAATCAAAGTATGGGATTTAC  
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CAACCTCCTACTGTGCTCCTGGGTCACTTCAAGAGGTCACGTCTGTGTGCTGGTGTCCATG  
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CAAGGCCCGGTCTCCCATCAACAGAAGAGGCTCTGTCTCCTCCGTCTCTCCAAGCCACCT  
TCATCTTTCAAGATGTCGATTAGAACTGGGTGACCCGAACACCTTCTCATCACCACCCAT  
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CTTAGTAAGGACTCTCTAGGTCTACCAAATCAAGCAAAATTGAAGGAGCTGGTACCAGTAT  
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CATTTACTAGAGGAAGATGTTTTATGAAATCAATTTGGGGTTTGAATTCAGGTGCAGTCATCA  
GTTCTTTAGGGGCTGCAATGTTTTAAAAAATAAGTCATCAGATTTTAAAGAAAAAGTGATG  
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Table 4

CAAAAAGTAATAGAATTTTCTCTAGATATTTAATACAGAGAGTGTATAGACTGACTCTAAGTTA  
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AAAATCTATTCTGACAACTTTTAAATCCTTTGATCTTATAAGTTAAAGCTGTAACAACTGAAAT  
TGCATGGATCAAGTAAGCATAGTTTTATCCAGGGGAGAAAAATAAAGGAAGCCATAGAATTG  
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GCCAGTAACGCTGTTTATCTCACTTGCTTTGAAAGCCAATGGGGGAAAAAAATCCATGAAAA  
AAAAAAGATTGATAAGTAGATGATTTTGTGTTGATCCCTACCCATCTCCTGGCAGCCCTACT  
GAGTGAAATTGGGATACATTTGGCTGTCAGAAATTATACCGAGTCTACTGGGTATAACATGT  
CTCACTTGGAAAGCTAGTACTTTTAAATGGGTGCCAAAGGTCAACTGTAATGAGATAATTATC  
CCTGCCTGTGTCCATGTCAGACTTTGAGCTGATCCTGAATAATAAAGCCTTTACCTTATCTG  
ATGTCCTTTTTGAGCTTTTGCATTACCTAGAAGCAGTCTACAAAAAGAAGTATAGTAGTCA  
AGAATCCCTTCTACTTGTTCATTAAATGTTTATCCCCAGTTATAATCTATTTCAAGCTGAAA  
GAGCTTTTAATAAAAAACATCTTGCNNNNNNNNNNNNNNNNNN

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NNNAGTGGCATGGGGGTGGGGTCTGACTCCACACACTAGCCACATGGCCAACAGC  
ATAGTGAAACGGGGTCCCATTCTCCATGTCATTGTGTAATCCAATGGTGGCTCATAGAGATG  
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CGATGCCTTTTCTTCTGGCTGTGTCTTTTACCTTCTGGACAAGTAGGATGAGGTGAAAGG  
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GTGTGTGCCAGTCCCTTGTGCTGACACAGGACGTCCCTTAAAGTCCAGTCCCTGGCGATTCT  
GAATCTCACTCTTTCCCTCTTTAAAGTCCAGGATCCTTCTTATCTCCCTTTCCCCATAGTCT  
GGCTTAGTCTCTTTGTTTCCGGGCGTAAAGCACTGGGATTAATATGTTTTCCAGGCTGAGG  
GAAAACACAGGAATGTGATGTGAAAAGGGACTTTTTTTTTCTTCACTGTGCTTCTCTCTCT  
CCCTTTATTTCTCCCTACCTTTTTCTCTCTTTTCTTCTTCTTTCTTCTTCTTCTTCTGCTG  
GATTCAGTCCCAGAAATGTTAGGACTACCTCAGTTTGTCTCAAACCAAACCTCAAACAACAG  
CAGCCACTGGAAATCAAGGAAACTTCACTAAGAATTTAACAGATCAGCAAAACACCGCCTCC  
TTCCCATTTTAGCACGTTTCAAGTGGACTCAGTGAGGAGTGAGAAGGCTGTTCTTTGGGGTG  
GGGTAAAGTTTTTAACTCCACACATCATATAAATCACTTTAGAAGAGGATGACTGGTGCCT  
TAACCCCTTCAAACCAAGTCATCGGGGTAACCTCTCTTCCAGTATGTTTTACCGCGTCGAC  
TCCNNN

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ACTTGACTGCTAACAACCTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAGCTTCACAT  
CTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAAGCTCAAT  
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CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGGAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGT  
GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTN

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GACCCACGCGTCCGGTTTGTGGAGTCGCGAGTGCTGGTGTCCGGCTGGAGTGCAA  
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ATTGTCTTTTTCCATCCTCTTCAGACATCCTTCAAAGTTGAGCCCTTTTTTCCGCTGTGAGTC  
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CATGGCTTCCCAGTGATGTGGGAAAGATGGACTCTGATCTCCAGGGTAGAAGTGGCAACCA  
GAGTAAGCCAGTTCGTTGAAGCAAATGATGGCTGCAGTGAAGAGTACCGAGGCACACCCAT  
CCTCAAACAAGGATCCACACAGGGCCAGAAATCAGCCCTCCAGGGTAACAGCCCTGACTC  
CGAGGCCTCCCGTCAGCGCTTCAGGCAGTTTTGCTACCAGGAGGTAACTGGCCACATGAA  
GCTTTTAGCAAACCTCTGGGAACTCTGTTGTGAGTGGCTGAGGCCGAAGACCCACTCAAAGA  
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Table 4

CCTGGGTGAGGGAGCAGCATCCAGAAAACGGCGAGGAAGCTGTGGCTCTGGTTGAGGATG  
TACAGAGAGCTCCTGGACAACAGGTTCTAGATTCTGAGAAGGACTTGAAAGTACTCATGAAG  
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AGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTC  
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CAGGAGACAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAAC  
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AGACCTGTCAGCAGAACAGCCAGATCTACAGGGCCATGGCGGAAGGACTCTGGGAGCAGG  
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TCGACCCACGCGTCCGGGCCCCGCGCTGACGGTGTCCCTGGGGCTCTGCGCTCGTC  
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CGGTGGACACCGAGCTGACCGCGGACTCGGTGGAGTGGTGCCCGCTGCAAGGCTGCAGG  
CACCTGCTGGCGTGCGGGACCTACCAGCTGCGGCGGCCGGAGGTACGCGGGATAATCAAG  
GTGTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATA  
CAACTACTCCGCTGGTGGAAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTG  
CCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGGAAAACCTGGAAGGGC  
CGGGGACCAGCCCTTGAAGATCATCAGCAGTGAATCCACAGGGCAGCTCCACCTCCTGATG  
GTGAATGAGACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCGAG  
GCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTGAGGGGGCGACGATG  
GCCTTCTGAGGGGCTGGGACACCAGGGTACCCGGCAAAATTTCTTCCACAGCAAAGACAC  
ACCATGGGTGTGTGCAGCATCCAGAGCAGCCCTCATCGGGAGCACATCCTTGCCACGGG  
AAGCTATGATGAACACATTCTACTGTGGGACACACGAAACATGAAGTAGCCGTTGGCAGATA  
CGCCTGTGCAGGGCGGGGTATGGAGAATCAAGTGGCACTCCTTTTACCACCAACCTGTT  
TGGACGTCTGCATGCACAGN

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NNNTTGTTATATTTTTTTTTTACAT  
CCCAAACAGGTCTTTTTATTTAACATAAGGCCAAAGAAGCTATCAGGCGTTGCTGAATACTGT  
CCACTAACTGTACAAAATATTGACTGCATGCCTCGCAAACACCAAATATCCGCTGGAATGC  
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GCACTGTTTTTCAAAGCATTTAAATAGAGGGTAAACCCCTTTGGAAATTAATACAGAAGAAAT  
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TGAAGATGTGAACAGCTTCTAAGCATTTCTTTCTCTGACCCATACAAACAGCTTCTCAGTGAT  
ACAGGGTTTAAATTTAAACACATACAATGTCCACCCCAACCTTCTGCCACATCTACAAGTT

Table 4

TTATTTATTTTGTGGGTTTTTCAGGGTGACTAAGTTTTTCCCTACATTGAAAAGAGAAGTTGCC  
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ATTTAAAGCCTTTACTTTTTGGCCTCATGCTGCTAGGTGAAAGAGTGGTTGTTACAGGACTTG  
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CCCAATCACTCAATATCCAATTTAAATATGGAATAAGTTTCAAATAAAATATGGAATTACATTT  
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GTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTTCA  
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TAATAAGACAAAGAACATCACCATATTAAGTTGAAGT

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ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTTAAAACTCATTTTAACCACTTTTT  
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GCCTATACTGTGGGAAATAAATCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCCC  
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AGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGG  
TAAATATTTTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAGATAA  
AGATGTCCAGTCTAGAGTCTCATAATTGTATGGTAAACACTAAAATGGTGGTATGATCCAGTT  
GCCATGGAACACAGGGGCGGGGCCCTCAGCTCAGTTTAGGAAGGAGCAGATTACTGAGT  
GGTGTCTTTAACTGGTAATTACATGAAGAAGAAGAGGTTGGGCCACCACAGGCAGAGGAAG

Table 4

GACCACAGGCAGGGCACAGGAGTATGCATTTGTAGGCTGTATATGGGGAAGTAAAGCAGAT  
 TTGTCTTGCTAGAGCTAAAGATGTAGACAAGAGTAAGTATTATGTAGGAACCTCGATCTGACA  
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 AGACAAATGAAGAGGTTATGGAAATAATCCAGGCCAAAAAGACAATGAAGGGCAAGGATGGAT  
 AGGAGTATATCCAGTATTCTGGCATGCTAGAGTTCATTGAAATGTTTAACTTGATGAATAA  
 TAGGTAAGGAAAGTGAGTGAAAACTAAACTACTAGATTCTTAACTCTTAAACCCTTCACTGGG  
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 AAAGT

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NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
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 ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAGGGAATGATCTATTGAGAGCCCTC  
 TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTCTTCTTCTAATAAACTTTCTTTTC  
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 GCCCGGGCGGCCGCCCGGGCGGCGGCTCN

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Table 4

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Table 4

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 NNNNN

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Table 4

AAGTGGACATTTTACTGGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTGGGGGAA  
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CTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGTTCTCCAGCTCACTTCCATAATGTCC  
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ANNNNN

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Table 4

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Table 4

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CAGTTCAGCACCTTTCCTACAAATCTTTATTCTCTACCATTCCCGGAGTAATAAATCCAGTTG  
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GGCGGCCGCCAN

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NNNNNNNGNNNGNNNNNNNNNNNTNNAAGNNNNNGGNNNNNCNNNNNTTTGCCNNTTAN  
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AGGACTTTAGACTAATTGCAGATAATTAAGAGAATATGCCTTCTGCATCCTGTGATACACTAC  
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Table 4

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CCATGCCAAGGCTACATCAAGACTGTGCGTGTGAGGATGTCCGTGGGCTTGCTGTCTGGG  
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GGATTACAGGCGTGAGCCACTCCACCCAGCCAGATTAAATGTTTTTATTTCTACCTGCCAT  
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ATTAAGCTCTGAAATTCAGGACACATACATTTATAGAGTGTGAGGCTGTGCATACGTACATTC  
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Table 4

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GGAAACTAACAATTAATCAATTAGAAAAGCAACATAAAATTAATGATATTTAGGAAATCAG  
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GNN

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NNGAGAGCGACGCGACATGTGGAGGGTCGAGAGGTTCAAGATGTTGGATGTGGCG  
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CACACCTTAAACACCAGCATGTTGGGAN

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Table 4

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AGTGAGATCCAACCACCTTGGGAGACTCTTCTCCACCCCACTCCCATTACATAGAGTGTA  
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Table 4

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Table 4

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### Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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CCCTCAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTTAGCAAGGTT  
CAAAGGCGATGGTGTAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAA  
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GTCTCAGGGACAACACAAACAAAGGATCTGGGTCAACATTTCCCTTTCTGGGATAAAAAATA  
TTGATGAGAAAACCTGGGGTAATAGAGCATGAACATCCAGTAAATAAGATTTCTTTTCATTGCC  
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TTTTGCCATAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTCA  
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Table 4

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GCCAGTTACCAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGATTCTTTGGTTCA  
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Table 4

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TGAAAAAAAAAAAAAAAAA

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Table 4

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Table 4

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Table 4

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Table 4

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NNN

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Table 4

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Table 4

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### Table 4

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Table 4

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Table 4

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GGTTGCTAGCCTAAAACATCAGAATAGAACCCAAAGGGCTTAGGAAGGCCTGCCAGGATAA  
CAAGAAGGCCCTGTATTCATTGTGTTTCATCTGCCTAGGCCTACTCATTATTTAGAGAATGA  
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TGCTGCAATTTGCCATCTCTGGTTCTGTGCTATAATCAGAATTGTAATTTATGTTCTCCAGAG  
CCAATTTCAATTAACCTGATTAAATAGAAATCAGCTAGCCAGATTAGTAACCTCTTTGTCCAGC  
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CCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGTGGT  
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NNNNNNNGCANCNNTTNGAAGTGTCCCTCCTACTTCTTGCTGCCTCACGGTTGCT  
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Table 4

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GGTCAATGTCATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCG  
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GCCGGGGCCTGCCCCGGGGCCGGGGCCGACGCGCTCGAGTCCCCCGCCTCCCCCAGCT  
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Table 4

GGAGGTACCCGAGGGGCTGGGGTGGCGCTGGGCAGCCTGCGCGTCTGGTCTGCGCA  
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CCATCGTGGAGCTGACCGGCTGGAGGAGCTCGTGTGCAGGGGAACAGATCGCGGTGC  
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CAAGGCGGAGGGGGAAAGCTCCCCGCCATGGCGCGGTCCACCCCCAGCCAGGAAGCTC  
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CAACGCGTGTCTGCAGGGTGTCTTTGGATGACTGGGGGAGAGGTGGGGAGGGGTGGTG  
GGGGGAAGCATGGACGAGAACATGGAGCAAATGTTTTACAACCTGAACCTCAGAACTGTGA  
TCCTCCAAGGAGCGCGCTACTTGAAGAAAAGAAAAAAGTGAATGGCTCTC  
AGGGATTTTGTTCCTGTCACATATAAGCCATAGTTACAGTACAGGTGGCAGTATTAGAG

### Table 4

[illegible]

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NNCGCCGCCGACGCGGGGGGAGGCGTCGGCCACGTTACAGCGGACACGGGAGCAA  
 GATGGCGATTCCGGGCAGGCAGTATGGGCTTATTTGCCAAAGAAAACACAGCAGTTGCAC  
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 GGAAGCGCGCAGGGCACAGGGCCTTGAACACCCGGAAGATGCTCACGCACACAGGAGA  
 GAATCGACCGCCGGACCTACGCAAGCACAGAGGCAGGGAGAAGAGCACACAGAGAGCAAG

Table 4

CGCAGGCAGAGAAGGCGGAGCGGAGCCCAAGAGCGCACAGCAGCCACCAACCGTGCGGA  
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>430

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CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
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CAGAAAATCTTCAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
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ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTCCCCCTC  
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CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
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GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
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Table 4

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AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
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CGGGCAGGTACGCGGGATTTACCGGGCAGTCAAAGATCTATTCCTACATGAGCCCCG  
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CAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGCACACCA  
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GGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAGCTCTTTTTCCAGC  
AGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACTCCCTTATCTTTTC  
CATAGCACCCCAAGCCTAAAACCAGACTGGCACAAATGGTA

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GGGAGTCGACCCACGCGTCCGTCTAGATCGCGCCCGGCCTTTGTTTTACCATTTAA  
AATAGTATCTAAAAATCATTTACTTCTCCGAGCCCTTCTTAGCTATGGTGAATGTGATGGAC  
TTAAGTGCTTTGAGATCTCTAGTATCAAAGATGTATTTACAAATATGATGAAATAATAGTGACA  
TCAATTAAGAGCTCCAAAATATGAAAATCCAACAAATAGAATTTTAAAGCCTGTTCAAAGAT  
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NNNNAGGTGACACTATAGAAGAGCTATGACGTCGCATGCACGCGTACGTAAGCTTG  
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AGGTGCCGCTGTTGCTGCTCGTGTTGAATCTAGAACCGTAGCCAGACATGGGACTGGAGGA  
CGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGA  
ATTAGTGATCCCCTAACAACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAG

Table 4

GCCCGGGAGCGGCTAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGG  
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CTTTAACTTTGAAATAAATGTGTGGACTTAATTCACCCAGTCTTCATCATCTGGGCATCA  
GAATATTTCTTATGGTTTTGGATGTACCATTTGTTTCTTATTTGTGTAAGTTCACAT  
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AAAAAAAAACACAACAAGAAAGAGAGACGAGCAAGCAAAAAGGAAAAGAGAAAGAAA  
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TAGGAGGGGAAAAGGAGAGAAAACAAAAGAAAAAGAACAGGAACACGAGACAGAAATAGAA  
GGAGAAGGAAGGACAGAAAAGAACGAGTGAAGAGGACAGGAGGTAGAGACGATGATGAGA  
GACAGACAGTAGAAGGGAGGAGGAAGGAGAGGAATTCAGAGGGAGATAGAGGAGAAGAAA  
TCAATCAGCGATAGGATGGAAAACGAAAGAGTGTGTGTTGTCAGGTGGAGAAGAN

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NNAGTGCACCCACGCGTCTGTTTTTTTTTGGCTGATAAGAATTCTTTATGTTATT  
CCAATAAAAAATACATTCATACAGAAATATAACAATCTTGCAAAAAACAATTTCAAATAAAATC  
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AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTTTTTTTTTTGTCTTTTGCTTACCTTC  
TTGCTTAATGGAATTGTTATGGCTAAGCAGATAGAAGGCCAAAAAAGGAGTTTTCCAAACCCA  
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CGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCAGATAAAAAAAAAAACAGTTATGTGA  
GCGTTAGTCACTGCTCATTTCCAGGAAGATCAACAAAAATACCAGCCCAGCCAGACTCACAT  
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CAGCTGTTCCACGCCGTGGGTATTGGCCCATTCGCGGGGGGAAATTTACTCCTTGGGGAAAA  
ACTGGGAGGGATTCTACTTGGCTGGGGGAAAAATTGGGTTTTCTTGGCCTTTAAAAGGT  
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NN

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CTCAGATCCTGCGAGGCCAGTTCTTGGAGGGACATGACTAATGAGTCGATCTTTACTCAAT  
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CTTATCTTTAAACGTGCCTGGTGTCTGAGCNNNN

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gGAGTCGACCCACGCGTCCGGTGGCTTCTGCGGCGTTTCCACTCTCGCTCTCCTG

Table 4

GC GTTGCCTGATCGCCGCCCATCATGGGTCGCATGCATGCTCCCGGGTGAGCTCGGGGCA  
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CCTTCACAGATCGGTGTAATCCTGAGAGATTACATGGTGTTCACAAGTACGTTTTGTGAC  
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TGGCCAACATAAGGAAAAACATTTCTGGTGAAAAGTGCGAATGTCTGGCAACCAATCATCata  
gTGAGCAATTCATGTGAAAATTAATTCAACTCCTGGGAGIaaagGTATGAAAGGAAAATCTAC  
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CCTAACATTATCAAACATTAATAAGAGAATGTAGAGCTACCATGCATTTCTATAATGAAAATC  
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CTCATTCAATTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGA  
CCTTGGAGAAAATCACCACTCAGAGTTTCTTCTCAAAATCTACAATCTGACTTTTCTGTGA

Table 4

ATTTTCTCCTAAAACCTGGACCATAATTTGAGTAAACCTTCAGACATAGACTGAAGCAGCTC  
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CAGATCAGCCTTATACAACATTTCTAACTCATTTGTACTTTAAAAAATTTAAACACAGACTT  
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TTTTACAATTTGGTTTGACTGGAAATTCAAAATCCATATATTAATTTTTGTAGTAAAGTTTATG  
TAAAAAAGACAAAAAGGACACTGATTGGCTTTTGTCTCTACAATATAGGTTCTAACTTAA  
CTTCTAACATTAGCGGCCGGACGCGGTGGCTCACGCCGTAATCCCAGCACTTTAGCAGGC  
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NNNNNANCTNGAAATNAACCTCACTAAAGGAACAAAAGCTGGAGCTCCACCGCGG  
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CTCTGATCCTTGACCCCTGGCAGGAAGCTGGTAGCTCACACTTTAACGGGAGGCCCTTACA  
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Table 4

CAACGTCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAACCTTGAAGGAAA  
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ACCAGACAGAGAACTGGGAAATGACTTGGGCAATAACTGTTTAAACATGAGTACGAAGAGAN  
>455

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GCCTCCAGCCTGGGAGACAGAGCGAGACTCCGTCTCANAAAAATAAATAAATAAATA  
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>456

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GCACATTTTATGATTGGATTGGTTAAAAATGTCATGTTGTACACAGGATGCAGGCAAAGGAG  
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TTAGTTCTGCTGTGAGAAACCTCATCAAGGAAGTTGGTCTCATCTTATCTAAGCCTCTTA

Table 4

CCATGTTTTTGAATTTGAACTGTTCTCGTACTCCTGCTGCTTCCTGTCCTTCTGTTCTCTGTA  
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CAGTCTACCGGCGCGCGGGAGGCGAGACGACCTCACCTCGGCGGCGCCACCCCAAAACC  
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NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCTGGGCGGGGGCGGCTTGAT  
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Table 4

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GGGCCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCCCAGTATGGT  
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Table 4

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### Table 4

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Table 4

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### Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

TCACAAGGATGGGTGCTGCAGACAATATATATAAAGGACGGAGTACATTTATGGAAGAACTG  
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AAATTACTCACACCAGGTGGGGAATTACCACATGGGATTCTTGGTCAGTGAGGATGAAAGCA  
AATGGATCCAGGCACAGCAGAACAGTCCCTGATTTTGTACCTTCCTTTACCAATAACTA  
GAGGAATTGCAGCAAGGAGTTATGGATTAAATGTGGCTAAACTAGCAGATGTTCTTGGAGAA  
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Table 4

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Table 4

CCCATTCCCTCTACAGTGGGATTGAGGGGCTTGATGAATCGCCCAGCAGAAATGCTGCCCT  
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Table 4

TCTCATATTCCACAGTCCAGCAGCTACTGTAGCCTGCATCCACATGAACGTTTGAGCTATCC  
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TCTTTCAGCCAACAGACATTCACCTCATGGTGGGGACCCATCGTGAAGATGGCGTGGCCCTG  
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GGGCAGAGTGTCTCCTCTGGCAGCTCTGAGATCAAATCCGATNACGAGGGTGTGAGAACC  
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Table 4

GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGA  
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Table 4

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CATGAAAATACTGCACCTTAAGTTTCTCAAGACTCTGAAATATGTAAATTAATATTTTTATAT  
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CAATTCAGGACAGTATTTTTTTTTGTCTTTCTCCATCCTTGATCAGAGATAAACTATTAAAC  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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N

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Table 4

GTAAAAATCATGCACTTGAAAAGCAAACCTTAATCTGCAAAGACAGCAGCAAGCATTATACG  
GTCATCTTGAATGATCCCTTTGAAATTTTTTTTTTTGTTTGTGTTGTTTAAATCAAGCCTGAGGC  
TGGTGAACAGTAGCTACACACCCATATTGTGTGTTCTGTGAATGCTAGCTCTCTTGAATTTGG  
ATATTGGTTATTTTTATAGAGTGTAACCAAGTTTTATATTCTGCAATGCGAACAGGTACCTA  
TCTGTTTTCTAAATAAACTGTTTACATTCAATTATGGGGTATGTATGACCTTCATTTTCCAAGAA  
ATAGAACTCTAGCTTAGAATTATGGATGCTCTAAAATGTCAGAATGGGAACCTCTCCTTGAAGT  
TCTCCCAAACCTCAGAGACAGCACTGCCTTCTCCTAAATGATTATTCTTTTCTCCCTGTTTTCT  
GGTATTTTCTAGCATCCTTCTCACCACAGCCATAACCCCTTTTTTACTTCCATTAGGCCGTATA  
ACTGGAGAGACCTGCTGCTCGTTATATAATTATCTGATACCAAACACAAGCGATTCTGAATGT  
ACACACACGTTTATCTATAGAGCATAAGGTAAAACAATTTTGTAAACATTTTGGTATTGTTTA  
CAAATGTTATTAACCATGCAAATTCATTTGAGAACCTCGAGAGAATtaacctATTAACCTTTAGT  
AAACACACAGTTTAAGACAAATATAAAGGTTTAGCCAAATGCAACGGGGAGGAAGCACCTGG  
AATAATTTGTGCTTGCTCAGGGGCTTGTTGGACATGGCTGTTCTGCCAAAGCTGTAGCAGTT  
ATCCAAAAGTTCTTTCAAACCTCATATTTGGGGCCACTGAgttttttgttttttttggTTTtgtttgTTTTTCT  
TTATGTCTCTCCATTTCTAAAGTGTTTTCTTAAGTTTGTCTAATTCAGCATatatacatctcagaatgg  
atccccagca

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CGACCCACGCGTCCGCGCGAATCCGTGCGGGAACCTGTCTTCTGTCTTTACCCAGA  
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GCCCGCTTCAAGGAACGGGTCCGGCTACAGGGAGGGACCCACCGTAGAGACTAAGAGAATT  
CAGCCTCAGCCCCCAGATGAAGATGGGGATCACAGTGACAAAGAAGATGAACAGCCTCAAG  
TGGTGGTTTTAAAAAAGGGAGACCTGTCAGTTGAAGAAGTCATGAAAATTAAGCAGAAATA  
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CAAATGAAGATGAAGTAAATCAGGACTCGGTCAAAAAGAACTCACAAAACAAATTAATAATA  
GTAGCCTCCTTTCTTTGACAACGAAGATGAAAAATGAGTAAGTGTAATATTTTGAATTTAGTC  
TACTTTGAAAGTATATGGAGTGTTCAATAAATCACATTTTTTCTATTATAAAGATACTACAA  
GTTCTTTATAGAAAGTTTAGGAAATAGAGAAAAAATTTAATAAACTACATCTATTCATCAATA  
CCCCTCTGACTTAAATGCCAACTCTATAGAAATTAGCTAGTATTAACATTTTGTATTTCCT  
TGTGTGGTTGTATATATATGTAAATTATTTTTAAGCAAAATACATTTTTTGTGTGTAACAAA  
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CTGGAATTCTTTTTAGCGTGGTCTCGGCCGTTTTTTTTTTTTTTGATTTTTTAGGAG  
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Table 4

GCCGGTGTGTGTGTACAGGTGTGTGTGTGCAAAAGCATAATAATGTGTTTGCAAAGGTTTGC  
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TCACCAAGGGGGGAGGTTTTACATCACTGGAATCTTCAAATTTCTGCTGGTCTGTGCGTG  
ATGAGTGCTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACT

Table 4

CCTACGGTTTCGCCTACATCCTGGCCTGGGTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGT  
CATCTATGTGATCTTGC GGAAACGCGAATGAGGCGCCAGACGGTCTGTCTGAGGCTCTGA  
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TGTGTCTCTGCAGTGGACGTGACTCTGGACCCAGACACGGCCTACCCAGCCTGATCCTCT  
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GGGAAAGAATANNNN

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Table 4

GTCTCATAGCACATCAGAGATTTACACAGGAAAGACGCCCTTTGTGTGCAGCGAATGTGGA  
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GGACTCATACAGGAGAGAGACCCTATGGCTGTAACGAGTGTGGGAAAGCGTTTGCGTATAT  
GTCGTGTCTGGTTAAGCATAAGAGAATACACACAAGGGAGAAACAAGAGGCAGCCAAGGTG  
GAAAATCCTCCTGCAGAGAGGCACAGCTCATTACACACCAGTGATGTCATGCAGGAGAAAAA  
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GTGCCCTCCGTGATCAATTATGTCTTATTTTATGTTACAGAAAACCCATAGGAAGAAAACTCA  
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CCGTTTCTTAACCATGCCCCTGGGGGATATTGACACCCGACCTTCTTCGAATTGTTTGGCG  
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CAAGAATCCCAAATACAGAACTTTACAAGCTGTGAACTTGGTCTTGTCAATCATGTTACTG  
CTCAAATTAGAGACAATCTTATTGCTGTCTATTGGAGCAGCATCGTGGCACATCAGCAGGCA  
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ACAAAATGGATACCTTTCAGAAAAGTATATACTTAAAGACCCAAGACGTGAGGATAATAAG

Table 4

CTCTGTATTTATAATCTTTTATATGTCCTATTGTGGCTATTATGCTTAAGTAAAATAGCTAAAG  
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Table 4

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 TCAATTCATTAGGAACACTGCTTGGTTATCTTGAGTTGCCAGTTTAATAGTTTTTGAAGTGT  
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Table 4

TTATTCACATTTTAATATTATGTTGCAGCCTTACAAATGTTTTCATCCACTCACTCTGATAAGC  
AATAAGAATAAAATAAAGATTGCATATGTACAATGCTATTCTTCCTTGGGAAAATGACAGAAT  
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TATGGGATCCTTGAACCTTATGAATAATATATTTTAAATTAAGTGCATAAATAATATTAGATAAA  
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Table 4

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NNNNNNNNNATCGCACCATGGGACGTTCTACGTACGCGCGAATTGAACATCTAAG  
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Table 4

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GCGGCGAGCGCGATGCCGCGGCGGCGGGGACGGGCTCCTGGGGGAGCCGGCGGCGC  
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AGGGACCCCCAGAGATGCTGGAATCGCTAGGAGGGTTGGCTCCAGGGGCAGCCAATTCCT  
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### Table 4

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Table 4

GAAGCCTGTTGGTTAGTGATTTATTTCTTTGTGGGGTCTTCTGTGAGCTACAGGCACAGTA  
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CCTCCACATGTATCCACATCTGAGCTGGTGGTGTCCAAATAATGAGGCATTTGGGGCAACCA  
ATTTTGAAGGATAGAATAGCTTTATGTGGAGCAAACCTTGAGGATCAATTGGAGTTGAGTGG  
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GACNNNN

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NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTATATTTTTTTTTTTTACAT  
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Table 4

TGTA CTTTGATATTTATAAAACAAAGGTGTTTTTTTTTTCATTTCTGCATCTGAATCAATACAAAT  
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GCTAGCAGCGAGGGCACCTTGTGATCATGTTGTTAAAATTATGAATCTGATTTTATGATGAT  
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TCCCACCCTGTTCCCACTCTTCTGACAACTGTGTACATAGCGGACTCCTCCTTCTCCTCC  
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Table 4

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Table 4

GACCTGAGTGCATTTCCACCATTGTCCTTTCCACATTATGTTGTAGCTGGCTGGCTGTCAG  
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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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CTGGGTCTTTAGAAACGTGTAGAAGAGAATCTAACCCAAGGCAAAATCAAGAGTTTTCTTTG  
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NNNNNNNNNNNNNNNNNAAATTTAATTTCTCAGCAAGGCCATTTTTTAACTTTCTG  
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Table 4

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Table 4

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Table 4

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Table 4

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GGCCGCCACC

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Table 4

ACCAGCACACCGGCGCCGTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTG  
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CTGGACAGATTTCTGCTCTCTCTCAGCTCAAAACAGCAACCTCAAGTTTCTGGAAGTGAAAC  
AAAGCTTCTGAGTGACTCTTCTGTGCGGATTCTTTGTGACCACGTAACCCGTAGCACCTGT  
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CGCACGATGATGCTGATGCTGTGTGACCTGCTCAGAAATCATAAATGCAACCTGCAGTACCT  
GAGGTTGGGAGGTCACTGTGCCACCCCGGAGCAGTGGGCTGAATTTCTATGTCTCAAA  
GCCAACCACTCCCTGAAGCACCTGCGTCTCTCAGCCAATGTGCTCCTGGATGAGGGTGCCA  
TGTTGCTGTACAAGACCATGACACGCCCCAAAACACTTCTGCAGATGTTGTGCTTGGAAAAC  
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GACACACCTGTGCTTGGCCAAGAACCCCTTTGGGGATACAGGGGTGAAGTTTCTGTGTGAG  
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GACACCTCGTGCATCCTCGTGTGGCTGAAGGAACAAGGCTATGACGTCATTGCCTATCTGG  
CCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGAAGAAGGCACTGAAGCTTGGG

Table 4

CCAAAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCTGGCCGGC  
CATCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCC  
TGCATCGCCCGCAAACAAGTGGAATCGCCCAGCGGGAGGGGGCCAAGTATGTGTCCAC  
GGCGCCACAGGAAAGGGGAACGATCAGGTCCGGTTTGAGCTCAGCTGCTACTCACTGGCC  
CCCCAGATAAAGGTTCATTGCTCCCTGGAGGATGCCTGAATTCTACAACCGGTTCAAGGGCC  
GCAATGACCTGATGGAGTACGCAAAGCAACACGGGATCCCATCCCGGTCACTCCCAAGAA  
CCCGTGGAGCATGGATGAGAACCCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAAC  
CCCAAGAACCAAGCGCCTCCAGGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCCCCA  
ACACCCCTGACATTCTCGAGATCGAGTTCAAAAAAGGGGTCCCTGTGAAGGTGACCAACGT  
CAAGGATGGCACCACCCACCAGACCTCCTTGAGCTCTTCATGTACCTGAACGAAGTCGCG  
GGCAAGCATGGCGTGGGCCGTATTGACATCGTGGAGAACCGCTTCATTGGAATGAAGTCCC  
GAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCATGCTCATTTAGACATCGAGGCC  
TTCACCATGGACCGGGAAGTGCGCAAAATCAAACAAGGCCTGGGCTTGAAATTTGCTGAGC  
TGGTGTATACCGGTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAA  
GTCCAGGAGCGAGTGGAAGGGAAAGTGCAGGTGTCCGTCTCAAGGGCCAGGTGTACAT  
CCTCGGCCGGAGTCCCACTGTCTCTACAAATGAGGAGCTGGTGAGCATGAACGTGCAG  
GGTGATTATGAGCCAACTGATGCCACCGGTTTCATCAACATCAATTCCTCAGGCTGAAGGA  
ATATCATCGTCTCCAGAGCAAGGTCACTGCCAAATAGACCCGTGTACAATGAGGAGCTGGG  
GCTCCTCAATTTGCAGATGCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTTGTG  
ACTTGTTCTCCCCGGCTGGCAGCGTAGTGGGGCTGCCAGGCCCCAGCTTTGTTCCCTGGTC  
CCCTGAAGCCTGCAAACTGTCATCGAAGGGAAGGGTGGGGGGCAGCTGCGGTGGGGA  
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CAAAACAACACGCGTCTCTTCTGCGCAACAAAAAGCGACCGATATTACACCACATTCATAA  
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&gt;705

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&gt;707

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Table 4

&gt;708

NNCACGAGGATTCTTCCTTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
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CAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAACACTTGAATCAGAT  
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&gt;709

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&gt;710

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AGGAGAGGATGAAGGCTAGAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACT  
GCAGATATCTCCAGTACCTGGTGACCAGATGTACAGCAGCAGTGTGACTACCGTGGGTGCA  
GGTACCAGTAAGCAAATAAGAACTGAAGCAGGGCAGATATTTTCAATTTGGGCACCCACTGAGT  
TTTTGGTGATGGGTATAGCTATTTGATTTTGGAGTCTAGGGTGGATTTAAGTCTGGCTTAGAA  
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AGAGTGAGGAAAGAGGGAGGGCCAAGGGTAAACCTTAGAACTTGAATAAGCAAAGAAGTC  
CCAGCACAGAAGCCAGAGGGAGAGAAAGAAACCAAGGAGTGTGAGGCTGGAAGAGAGAGGGT  
GGAAGATGCNNNNNNNNNN

&gt;711

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TTCTAAATCAGATTCATAACTTTGATTCACTTCCAAGGA

&gt;712

ACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTGTGATTAGGACTT  
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GATAAACTTGAAAATCAAATAACCTAACAGCTGTCTTTCTTTCTTTCTAAACCCTTTAAGAA  
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AGAACTGCATCCTGAAAGGTTGTG

&gt;713

NNNNCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
CCTCCGCCTCCCGGTTTCATATGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACA

Table 4

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&gt;714

CCCTTAGCGGCCGCGCCCGGCCAGGTACATATGCACTATTTAGAATATGACATTAATCA  
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&gt;715

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&gt;716

&gt;717

&gt;718

&gt;719

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
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CAAAAATATTCAAAAATAACATTTTTTGCACCTTAATGATTACAAATGCTAACCAGCATAAAGA  
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&gt;720

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ATAACAGAATAGGAAGTTTAGGAGATAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTA

Table 4

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&gt;721

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CCTAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTATTACCTATCTTTT  
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&gt;722

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TAGAGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTTGAATCTCTGCTCTGCCACTTTTAT  
TAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTTAGCTCAATTTCCCCATCTGTAAAATAG  
GAATAATAAAAACTGACTTCAGAGAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTC  
TGTAATTTGTTTCTGTAATGGGCAAGATAGCAATATTTTAGATTTTGTGGACCATGCAGTCT  
TTATCATAACTGCTTAAGTCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAATGAAA  
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TAN

&gt;723

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TCGTGTGTGTATGTGCGTATGTCCATAAATCTCTTCTAATTACAGTGTAAGCCACATCCCAC

### Table 4

[illegible]

724

ACTCCTCAGCTTGTGCTGCCCTTCTCGAATGACTCGCGTTTCCTGCTTTCATCACTA  
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>725

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726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAAAGGTATAT  
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CCGCN

>727

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GCAATGCGGTTTAGGATTCCAGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAG  
ACCACTGAGTGCAGTTTTTCTAAATCTTTTCCCCACTTTGATATGTGGTCCATAAACTGCTT  
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**>728**

**>729**

ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCATAAGGGAAGGGTATT  
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**>730**

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### Table 4

**>731**

**>732**

>734

**>735**

**>736**

737

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Table 4

GTGGAATCTACCCAGAGGAAATGATTGAGACTGGCATTTCGGCCATCGATGGGATGAACAG  
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&gt;738

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&gt;739

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&gt;740

&gt;741

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Table 4

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>742

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>743

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>744

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>745

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>746

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Table 4

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&gt;747

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&gt;748

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&gt;749

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Table 4

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&gt;750

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&gt;751

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&gt;752

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Table 4

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>753

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>754

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>755

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>756

>757

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>758

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>759

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>761

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Table 4

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>763

>764

>765

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### Table 4

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**>771**

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**>772**

**>773**

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**>775**

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**>777**

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Table 4

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Table 4

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Table 4

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Table 4

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CCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCCTGCGTAATGGAGGACACTTTGTG  
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ACCACCAGGACCCAGAACTGTGGAGTCAGTGGCAGCATGCAGCGCCCCCTTGGGAAAGC  
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GGCACGGGGCTACCTGAGGCCTTGGGGGCCCAATCCCTGCTCCAGTGTGTCGCTGAGGCA  
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&gt;782

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&gt;783

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Table 4

TGAGGCTTGAGATTGCTGTTGATAGACAAGTTTTCAAGATCTATTTTCCCTTCATTCTAGGCT  
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GGGCAAGCTCCCCTTGTGATATTTGAGGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCC  
TTATTCTCATGCTACCTCTCCCAACCATTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATAT  
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&gt;784

&gt;785

ACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATATCTGGGGTGT  
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AGGAGTTGTTAGATTTTATTATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGT  
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&gt;786

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&gt;787

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GGAAACTTATAACCTCGGGAGGCAGGTCTTCCCCTCAGTGCGGTACATACTTCCAGAAG  
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CATTTTTGAGGAAGTTTTGTCTAATTATCAATATTGAGGATCAGGGCTCCTAGGCTCAGTGGT  
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Table 4

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CTGGATGGTGAATGGGGGTGCATTAGTCAGAATTCTCCAGAGAAACAGAAAAATAAGATTCT  
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&gt;788

&gt;789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAATCTCCTACC  
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&gt;790

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CATTCTGCGTCCCTTACCGGCTTTCTGTACGTGGATTTCCGCCTGTTTCTCATTGCCTCATG  
GAAATAGTTTCATATCATAGAAAGGCAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACA  
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N

&gt;791

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Table 4

&gt;792

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AATACAGTGGTAACTTCATATCTGTTAGTTGACTGCAGCTGCATTATGGTGAGCTGTGAATG  
TTATCTACAAAGTAGCCAGTAAAGGTTAAGTTTTAGTGTTCAGTGGTGTGGCCTTAGCTAGC  
TACTGTGGCCTTCAGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGT

&gt;793

&gt;794

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&gt;795

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&gt;799

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&gt;800

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TCAACATACATTATAAATATGGCCAATTTCCCAAATTTCTAAATGAATGGAGATAAAATGCTAT  
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Table 4

TATACTCACACCACCAGTAAAACCTCTGGTCACCTGTTTTGGGTTGTGGAATGCCCCCAGCA  
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&gt;801

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&gt;802

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&gt;803

&gt;804

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&gt;805

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&gt;806

NNCTGTTTCCTGTGTGTAAAAGGACGGCACAGAAACATGGGCCATCGGTGTTTCN  
NN  
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&gt;807

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CTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACTGAGGAAACGAAAGTTTCG

Table 4

GCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGAACTTGTCCCCTTTTGTTTTCTTTGA  
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&gt;808

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Table 4

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Table 4

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&gt;819

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Table 4

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Table 4

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Table 4

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TAAGCATACCGTTTGTCTGTACATTAGTAGATTCTGAGATTAATAAAAAATTTTTAAAGAGTGA  
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ATCCAAGCTTACGTACGCGTGCATGCGACGTCATAGCTCTTCTATAGTGTCACCTAAANNNN  
N

&gt;826

ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAAGTGTTCOA  
GAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCTGTTTGGTGTGTGTATCACTT  
GCAGATGCTGTCTACCACCTTTTCAGTGACATCCTAGAAGCTTCTCTATTACCACAGTAAGT  
GCTAACTAGATATGATCTTTCCCTAATTTTCATGAGCATCTTTTTCTGATATAAACCAGGGAG  
GGAAAAAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACCN

&gt;827

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ACATCGTATTTTTTAACATATAGTATTTTTGAATATGATTTGAATTAATATAGAAAAGTGCATT  
TTTTCCAGTTTTTTAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGGG  
GAAGGGGAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGATGGAGGCANN

&gt;828

NAGCTGTTTCTGTGTGTGTAACGACGGCACAGATGCCGTCTCCGTGCGCGCTCCC  
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GCTTCTGTGGGTCTCTGTTTCTTTATGAAGTTTCCAGGCCATACAAAAGTGTGTTAGCCTA  
TCTTCTGTGAGTTTAAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGGGGAGTTTTTC  
CCACAGCAGTTCTGAATGGGATGAAGTGAAAAATAAATCTCCCCATTGCCACTACACCACC  
TCCAGATGAGTCTTGACAGCAGAAATACCGTTTAACTGTTTCTGCTTTATTTTTTCTGATTAT  
CATCCAGTTTTATATATTATATCTGTGTGCTTTGATAATTATATATACATACTTTTTTGATATT  
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AGTAGTTTCAGCTTCAGGACCTTTAATTTCTCAGGCTCCTTCCAATGTTCTGGACCTAATTC  
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&gt;829

NNNNCGAGGTGACGGTATCATAAGTTTTTTTTTTTTTTTTTTTTGTTTAAATCATTT  
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Table 4

TTTTATTCAAGTGACTTACAATGGCCCTAGGAAACAAGTTCTGTTATTATCCCCATTTTAAAA  
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GTGCGAAATCCCTTAAACTCATATCAGACCTGTGATGAACAAACTCACACTAAGTTTTAAAAA  
CTGCTTAATTTACTTTATCATGACTAGTAATATATAAGAATTTTGTATATACTTTATTAATAA  
ACTTTGGAAAACATTTTTGCCTGATCAGCAATAAACTACTGATAAGATAAGCTGGTTATCA  
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GAGAGACAGATTTTAAAATATTTGGATTTTAGCCCATATGGAAATTAATAAAAAAAGAAAAA  
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GT

&gt;830

NNNNCGCGGCCGCGTGCACACGGCTGCGAGAAGACGACAGAAGGGGGAACGCTC  
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CTGAAGAATTAACAAATGTTGCTTCAGCTTTATCTGGACAACAGAAAAGAGATCAGAACGA  
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TGGTTCAACAACCTGGAACAAGCATTGGAAGAGATGAAGACAAACCACTGTAGGAGAGTTGTT  
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Table 4

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CCACCTTCGATGGAAGGTAACATGGCTGATCCCAGCCAAGATGAAACAATAGCCCTTTGTC  
TCCTCAGAACCAACCTATCTCCAACCTTTTGTCCAAGTCTTACCCCAATTAACAAGAAAG  
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NN  
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CCCGGGACGNNNNNNNNNNNN

&gt;831

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GAAGTCACCACTAGGCAAGCTGCCTGTAAATGAGCTTGCTTGATATGACCAATCAACCTTT  
GCTTGTTGAAGGGTAGTTATCTAGTTTCTCCTTTTCTTTTTTGAATTTGGTCTTTAAGGT  
CTTGATAATCTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAAATCAGGACTCAGTTTA  
CTTAATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACT  
CTCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAACAGCTGTTTTT  
GCACTCTN

&gt;832

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CTGCTGTCCAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTGACGTCCAT  
GAGCCCAGCTGCCCTCTCACCTCACTCCTATTTTAAAGTCAGTGACACACAGTCATGCTTTC  
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AAGGAAATGGATATTCTGATGCACATCCCACCCGGTGTCTATCAAATGGAACCTTAGCTCT  
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Table 4

&gt;833

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TGATTAACACAATTCACAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTC  
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&gt;834

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GCAGACTGTGGATAGAGCCCGAAGCCTCAGTTTAGGCAGCTTGCATCCAGCTGTGAGTCCC  
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&gt;835

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CNNNNNN

&gt;836

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CCGCTGACTGAAATACTTAAGTGTCCTAAGTGCTTACTAAGGGTAAGAAGTCAGG  
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AATGCTTCATGATTGAGGATCAGTATGATGACTGAAGACCTTGATTCTAGCGTGCTCAGTAG  
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CACTGCACTGTGCGGAGAGCACTTGGATTACAGGAAGCATGCTCTGTACTCTCAGTGGTGT  
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TAGCAGATATGGGCTGCGCTTTGAAACGAACAGGTGGGATTTGCAGGGAAGGGTATTCTGA  
TTGGGATAATGGCTCGTAGGAGACAGTGAAGATCAGGACTACCAAATGGAATGGATGGGC  
CTGTTGGGGATTAGCAGAAGTGCTTAGGTGGGTGGAATTACAGAGGGCTAGGAAAGCTAGA  
CAGACTAGTCAAATGAGACCTGATGTGAAAGGCCACTAGGGCACCAGCCTTTTTAATCTGA  
AAGCTCTGCTTCTCTGTTCTTTATCCTGTTGCTGGTTGTTGACCACATAATTTATTTGTTTAC  
GTCATCAGCTGGCACAGGGCCTTTATGAGGTCAGAGACTGCCTAGCCCTGTGTTCTGGCA

Table 4

CCTAACAAATGCCTGTCATAAAAAACAGGCATTTCAGTACGTTTTTGTATGATGAACAAATTATACT  
TATTTCTTGGTATTTGACAACACTACTTGACTGTATATGATGATAATTAGAATATCCACTCTGAG  
AAATCATTAAAAAGAGAAAACTCATTCAATGCAATCTCAAATGCCTTTACTCATCACGCTCTCA  
TTTTCTCCAGATTCCTGGTGCCCTGATGATGAAGCAGTACGGATATTTTGAATTTGAGA  
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GGCGAATTCGAAGCTTACGTAGAACAAAACTCATCTCAGAAGAGGATCTGAATAGCGCCGT  
CGACCATCATCATCATCATTCATTGAGTTTAAACGGTCTCC

&gt;837

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TAGAAACAGTGACAAGTTAGAAAATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCT  
GAGGAAAAATTCATAGCAATTTATAACAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAG  
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TGNNN

&gt;838

&gt;839

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TCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGTCTTCTCAGCATCTGCCAATGTCT  
CTTACTCAATCTTGGATCAAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAG  
TTCTCCGCCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACAAGAA  
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&gt;840

&gt;841

NNNNGATAACAGAGTTTATATACCTCCTGTCCCCATCTGTACACTTAAAAATGTATGT  
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&gt;842

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TATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTACAAAGTGACAGCTTTTCAGAGCTA  
GTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGG  
GTGGCATATTCTAGTCTCCTCCAGTCATATTTGGGGTGGTGTGCTCCTGAGCCCCAACAAGA  
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CCACCTGTTGATTTCTAGGCATCTTCTTGCTCAGGGTAGTAGATGTTTGGTGGACTAGAAA  
TGCAGGGAGAAGAAAAGGAAGGCTTGGTGATGTCAAGGATTTTAAAAGCAAATATCTCAC  
TGTGTTCTCTCAATAGTCACCCTCTGTGCTGCTCATTCCATGAGGCTTAAAGCTGATAACTGG  
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&gt;843

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AGGTATGTCTTAATAGAGCAGTGCTAAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTA

Table 4

GAAAAGAATATGAAGGAGAAGGGACCAAGAAGGCAGATACATTGCCCCTGATAAAGAAGTC  
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&gt;844

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&gt;845

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&gt;846

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TACTTTTGAAGTANN

&gt;847

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Table 4

AAAGTAAGGTAAATAGGAGTTTTAGTTGTACTGGCCTGTAAGATTTTTTAAATTACACAGTGC  
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&gt;849

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&gt;850

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Table 4

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&gt;851

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&gt;852

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&gt;853

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&gt;854

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N

&gt;855

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Table 4

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&gt;857

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&gt;858

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&gt;859

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847  
Table 4

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&gt;860

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&gt;861

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&gt;862

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&gt;863

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&gt;864

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Table 4

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&gt;865

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&gt;866

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&gt;867

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&gt;868

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&gt;869

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&gt;870

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Table 4

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&gt;871

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&gt;872

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&gt;873

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&gt;874

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&gt;875

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&gt;876

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Table 4

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&gt;877

&gt;878

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&gt;879

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&gt;880

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&gt;881

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&gt;882

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&gt;883

Table 4

&gt;884

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&gt;885

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&gt;886

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&gt;887

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NNNNNNNNNNNN

&gt;888

&gt;889

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&gt;890

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&gt;891

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Table 4

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&gt;892

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&gt;893

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&gt;894

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&gt;895

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&gt;896

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&gt;897

&gt;898

&gt;899

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&gt;900

&gt;901

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Table 4

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>907

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>908

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>909

>910

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Table 4

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NN

>911

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GGTTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATCTTT

>912

ACAACAGAGCACAATGCTTAGATTTGGGTGGATTTGAATAAGATGAAAGATAAATTAT  
GATTTTGTTCAGTGTTAAAAATAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAG  
TATCTTGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTCTATATTATTT  
CTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGTATTTTCTTAGTTGCAACTAAGTGATCAGT  
TTCATGATTTCTCTTACTATGAAACATTTTTTTTTTTTCTTAACAGTTATCTTAAAAGCAACTC  
TGGGTCTACTGGGCTCAAAAAATGAGAAATCTAAAGAAAACTGGAATTTTTTTTCCCAAAT  
TAAATGAGTCCTGGTATAATTTAAAGCCTATTCTTTGTAGTTTCACCN

>913

ACCACAAAGTTATTGECTACATCCAGGTCAAGAAGATCTTCTACTGTATTTTCTTCTA  
AGAGCTTTTACATATAGGTCAATGATCAATCTAAAATTAAGAGTTGTGCAATCATTAACTCTAG  
CTTTAGACTGGTATACTAATTGGTTTGTATACGAAGTGGGTTAAAGGCATAGGACACATGCA  
GGCTGTGTTCAATTCACAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAG  
TGAGGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTACT

>914

NNNACTNGAGGACCAAGCCACAGAGCAAGCGCTAAAAAAAAGNNACTAGAACCT  
NACCACTGNNNACGCACCCCAATTTCTAAAAATGTATCAGTAAAAAAAACAATTATCTAAA  
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CTATTTTAATTTAGGAAGTTAGTGTCTTCTCTCAATTTTCTGAGTTTCTGAGGGGAGGCT  
CAAAAGGCCCGAGAGGCTCTCTACAAGGAGAAAGCAAGCCAGAGAATCTGA

>915

ACCAGAAATGGTAAATATATGAGTAAATATAACACACTTTTTTCTTTTAAAAATTTTATTT  
AAAAGGTAACTTTGCAGCAAAATAATTAACAATGTATTGTGGGTTATATAGTAGTAAGATG  
TTTGACATAAATTACATAAATAATTGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTG  
ATATTATATATGAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACATAT  
TGTAACCCTACAATAATCATTACAAAATAAAGAGATATAACAGTAAGN

>916

ACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCTTTGGTCTATAATTAGTA  
AACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGGCCCCCTTAAGCGACCCAGGGTAGC  
TTGTGATGGTTCAGATTATGATTTGTTCTAGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTA  
TCCTATTTGTCCCCTTCCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCT  
GGTAATCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAG

>917

ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACATTGTTA  
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ATAGTCATCAGACTCTAGAAATAAATTATCAACGATGACTGCAGTGGGTGAGGCTGTTTGTT  
ATCAGATCACTTGAGAACAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATT  
TAGACATCTGTTGAGAAGCTTTCTAAGCCATGGAGTATTCTAAATGAG

>918

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TTAAATGATTAAATGAAAAAGTATTACAATGCTAAAAGATTTATGAGATGACTATTTTGCAT  
TGACTAGACTAAAAGTTCATTTAAAATATTAATATGTGTATTACAGTGCTGAAAATTTCTAGGA  
CATTTAAATGACATGGTTACAGACTCTGTCTTTCCAAGTACTTAACAATTCATTTTCATGGTTC  
TGATGTCACTTGAGAGGCATATTTTATTGAATCGCTGTATCATCTGGCCTATAAATAGAAGT  
CCCCAGAATATCTACAAAGTGGTAATGCATTAAATATAGGGCTTTTTCACAGCACTTGACGGG  
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Table 4

CTGCTTCACATCTTAGAGCATACTGTGCTACTTGCTGTCCCAGCAATCAATACTGAGTCACAT  
CTGGATGGCTTGAGCAAGCCACCTATGGCGAACCACGCAAGAACCTTTCTGCTGCCATGT  
ATTTAGGATATGGTTGTGTGACTTGAGACTGCTTGGGAGCCATTCTGAACATTTTCATAAT  
GACTTCCTCCATAATCAGTCTGGGAGACCGTAGGGTATATGATAGTTCTTAACATGATTTGCC  
TTCTTGAAGTAGTTCTAAAGAAGACCCATGTTGATCTGAGTCTCATACTTTAGCTAATTAAGTT  
CAAGGGAAACACCATTTATTTGAGGGAATTATCTCATTATTTTTTGCTAACCAAACACATTTTG  
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CATCTGGTATTTCTTCCACGGCCACTGTTTCAGTATTCTGTGGCAGGTCGGAGGGAATCAG  
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GCAANNNNNNNNNNNNNNNNNNNN

&gt;919

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TATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTCTCCTCTGA  
GCACTAAAATCCTAAACATGCAACTTAAAAAATAATTCTAAATGTGAACACCACCTTTTCAGTA  
ATTTATATTAATGTATCATCTCACCTCTTTTCTCCTCTTCCAACGCCCTTCTTTCTACCCAA  
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TGGATAAATTGTTGT

&gt;920

ACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAATTTCAATCCACTTA  
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TTAACTGTCAGCGGGGCTTAAACCACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAA  
AACAAACAAGCACACAAACAAAAAAGATTTCTAATAAAGTGGAATAATTTTAAGAAAGGCAAG  
TATCACTATTTTACAAGGAAAAAATTAATCATTTTAAACAGATTGGCAAAACATGAACCTAGTTC  
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AAAATGCTT

&gt;921

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CAAGGCCAGGGGTTCTCAAACCTCTCAACATTTGTGTGCTCATCTCCCTTCACCCAGAGACT  
CCCCAGGGCTGCTGGGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGG  
AAATTTCCAAAGGTGTTAATAGACACATAAAGATTTTTAAATATTAAAAAAGAAAAAGAAA  
GAA

&gt;922

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GGAACATATGTCATATGGGTTGGCCACAAGAACCTGGCGTCTTTCTCGCATATGGGATCTATT  
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TGTTTTTGTCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCC  
ATTCAAACACATAATGAGAATTGGAGATGTAAGAAGGCTGAGTTCTAGGAGTTGCAACAA  
CTTAGGAGATAACAGAACCAATTCCGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACT  
AGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATG  
CCACTGAAAACCTGATGAAAGAGGAGGGAGACAGGAGGACAGGGCTCTTGTGGGTAGCAGG  
AAGACAGAATGGAAATAAACCATGTTAACAAGATGGCTTTTGGCAGCAGCAGCAGCACCAG  
GCCAGCTGTCTCTCTCCTCCAATTCAGTTACCACCACAAAACCCATTTGCAGTGGGAAGAG  
CTGCTGCATATCCGAGTGGATTAAGGTTATTTATTCACATGTGGACCATTCAATTAATTTTGT  
TTTCTGTGTTTCTTAAATGATTATCATTGGAGGTGCAGCACTGGTGTACTTATGATTTTAA  
AAGTGCTTCAAAGTTTAAAGCATTTATTTCAACCAATAGTGAGTTAACCTCTGTGTTATAGAA  
TATCTGAGCAAAGGTGGTCCAGCAGGTTCTGTTTATCAGTGGGGATCGAATTTCTGCTGCTA  
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TAGTCAAAGCCCCAACAGAAAAGATGTTAAAAATCAAGTACTGTAGCCTTAAAGGTGTCCT  
CAATTTGCATTCTACAGCTAAGTGTAGAAGTCTCAGAAGTAGCATTTTATGGCTACCAACTCCGT  
GTGGCAGACTGACATTATCTAAATTAAGCCTGGGATTTTATCAAGACAGACTATCTTCATAAN

Table 4

&gt;923

ACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCACCTCAATTCTACTCTGGGGGACAT  
TCCTCCTCTCTTTTTGGTCTGGAATGTCCCCTGGCTTCAGGGACAGCTCAACATGGGCCTGG  
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TGCTGGGAAGGCAGAGCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTGGAG  
CTACTGNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAN

&gt;924

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAGTGCTGAAT  
TGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTTCAGGGTCCGTCTCCCCACCTCCCAG  
ACCTCATTATATTATCCCGAAAAGAACACGATCTCTTTAAGGCTAGGCAAGTATTGCGCTGAT  
GAGCCAGGGACTGCCACCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTA  
GGCTGACGACACATTTTTCATCATTAAATCCAGCCTATTGTAACCAGGGCCACTCACATTGATT  
CGGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
AACTAATCAAATATATTTAGAGCCTTCCCTGGCAACTTGCTGGGAGAGCAGCAGTAGACAGC  
TAATAGGGGAGCCCCAGACAGGTAGCGCGGAGCTCACCATGCN

&gt;925

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAATAATTAATAAGAGTAAACATTTTAA  
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GTCTTTTCTAATACCCAGTCAATCACCTGTACAGCATTGTTGTTTGCTGTTTTCTTCATTTCTT  
CAAATAGACCCCTTGAAGTTTTAAGATCCTTTAGATAGAAGTTAGAGATTTCAAAGAGACGCT  
GGCTGCATGCAGTGAACATTCATGAGTCTCGGTAATACTGTGTTTCTTCAGGGTTTCAGTA  
ACTACTTCTTTCAGTATCCGTGTGTGTTTCTGTGATCTTGATTCTTAATTTGCCTTGATGTTT  
TTGATTCATGCATACTTTTTGACCTGAAGTGGTCTTTGTAGCAAGTTTGGAGTTTCACAGC  
TAGGAATTGGAACCAATGGACAAGTCACTGGTAAGGACCGCTCTGTTTGCTGCTTTCTGGAT  
GTCACATGATGATGATAGTGATTACTATTACCAGTTGTCTGAGAAAGAAGAGACTCTGAAGTT  
TCAGATTTACAAGTCTTTTTCTGGGATAAAGGCAATTCAGATCTTAGATCTCCGTTTCAATC  
GGGATACTTCAGTTTGAAGTTTCAATTTGTAAACTTCTCCGTCAGGGACACTTCCAGGATCT  
GACGAAACTACAGGAGATGGAAGAGGGGCTCAACACAGTAGGTACTGGAAAACCTTCTCTGG  
TGCAGGTAGTTTGAGTTTCATAACGAATAAGACGAGACTGAAGTTCANAAAAATCCTCCATCTC  
TTTCAAAGCTTTTCCGTCATCCAAGCAATATTCAATTCATGATAATGACATACTGAGGCTT  
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CCCCCTTTTGAATCGGTAAAGGTTGAAGATCTCCAANNNNN

&gt;926

ACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATAAATGAAATAAT  
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ACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

&gt;927

ACGCGGGGATTGCTGATGGATCAGTGAGCCTGTGTTTCATGCCAGTGAGCTGCTGTG  
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AGGAAGGGCTCCCTCGAGTTGTGGTGTGAAGAGATAAATCACCAGTCACAGACTATGCACC  
CGACTGCTGCTGTTTCAGTCCAGGGAAAATGAAAGTTGGAGTGCTGTGGCTCATTTCTTTCTT  
CACCTTCACTGACGGCCACGGTGGCTTCCCTGGGGAAAAATGATGGCATCAAAACAAAAAAA  
GAACTCATTGTGAATAAGAAAAAACATCTAGGCCAGTCGAAGAATATCAGCTGCTGCTTCA  
GGTGACCTATAGAGATTCCAAGGAGAAAAAGAGATTTGAGAAATTTCTGAAGCTCTTGAAGC  
CTCCATTATTATGTCACATGGGCTAATTAGAATTATCAGAGCAAAGGCTACCACAGACTGC  
AACAGCCTGAATGGAGTCCTGCAAGTGTACCTGTGAAGACAGCTACACCTGGTTTCTCCCTC  
ATGCCTTGATCCCCAGAAGTCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATGTC  
ATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTC  
AAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATG  
CAAATGGAATTGAAATTCAACTTAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTCA  
GGTCACCCAATTTGCAATGCTGTCTTCCACTTGCAGAGACCCCAATCCTGGAGCCATCCT

Table 4

GTGCTATAATTTCTTTTATTGAGAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCC  
AGCAGTGCATCTGAACTGCTGTCAGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCC  
TTCACAAGCTGTTTCCATTAGAAGACGGCTCTTTCAGAGTGTTCGAAAAAGCCCAGTGTAAT  
GACATTGTCTTTGGATTTGGGTCCAAGGATGATGAATATACCCTGCCCTGCAGCAGTGGCTA  
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GTGCTCTCTCTGCTTGAAGAACTGAACAAGAATTTTCAGTATGATTGTAGGCAATGCCACTGA  
GGCAGCTGTGTCACTCCTTCGTGCAAAATCTTTCTGTCACTATTCGGCAAAACCCCATCACCA  
CAGTGGGAATCTGGCTTCGGTGGTGTGATTCTGAGCAATATTTTCATCTCTGTCACTGGCCA  
GCCATTTTCAGGGTGTCCAATTCAACAATGGAGGATGTCATCAGTATAGCTGACAATATCCTTA  
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GTTACTAGAGACATTAGAAAAACATCAGCACTCTGGTGCCTCCGACAGCTCTTCCTCTGAATTT  
TTCTCGGAAATTCATTGACTGGAAAGGGATTCCAGTGAACAAAAGCCAACCTCAAAAGGGGTT  
ACAGCTATCAGATTAATGTGTCCCCAAAATACATCTATTCCCATCAGAGGCCGTGTGTTAA  
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CTGGGGAACATTCTACCCGTTTCCAAAAATGAAATGCTCAGGTCAATGGACCTGTGATATC  
CACGGTTATTCAAACTATTCCATAAATGAAGTTTTCCTATTTTTTCCAAGATAGAGTCAAAC  
CTGAGCCAGCCTCATTGTGTGTTTTGGGATTTTCAGTCAATTCAGTGGAACGATGCAGGCTG  
CCACCTAGTGAATGAACTCAAGACATCGTGACGTGCCAATGTACTCACTTGACCTCCTTCT  
CCATATTGATGTACCTTTTTGTCCCCTCTACAATCTTCCCGTTGTAATGGATCACCTATG  
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AGCAGATTAAGAAAGCCAAACCTCTCACACAGTCGTATTTGCATGGTGAACATAGCCCTG  
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GGGAGTCTGCACAGCTGCTGTGTTCTTACACACTTCTTCTACTCTCTTGGTCTTCTGGATG  
GTCTGCTGGGTCCCTGGGGTACGGATCATCTCGGTTTCATCCATGGCAGCATTGAGAGGGGG  
GGGTTGCGGGAGGGGGGCCCTTTTTGGTTCCTGTGGTGCCTGCACTCAAGAGGGTGGG  
TGCTGCCGGGACCCCGTTTGGCCGGCGGGGTGCGGGCGCCACCAGGGCGGGGAGGA  
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&gt;928

ACAAGAAAGAAAAACAATACCAAGTATTTACAGATCCAGAGAAAAGTTCACAAGAATG  
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CTCATGTAAAGGGTTGGAACCTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTA  
GCTAGGGCATGGCCTGAGAGAAGCCCTTCTGCTTTCAGAGCCTACAAGTAGTCCCCAG

&gt;929

ACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTTCTAATGAGTTCT  
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TCTTTAATTGTAACTTTATTAATAAGAATAAGAGGACATTTTAAAGGAATTAAGGAACAT  
TAATTCCTTCATAAATGTATAGTGCTTAAGCTCTGCTTTAAAGGTCTTTCATGTGCTCTTGG  
GTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTGCAATCACAAT

&gt;930

NNAGGCATGCGCCACCACACCCAGCTAATTTTTGTATTTTTAGTAGCGATGGGGTT  
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CAAAGTGCTGGGTGGGCTGAGCCAACCGCACCCGGCCCCCAATTTTTTTTCCAAAAAA  
GTAACCAGAAAAGTCATCTCAAGACAGTGTAGAGAAAGCGTTGTGTTTCTCCTCTGAGTC  
TTAAGTGGGGGCTTCATGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGCCACAGG  
AAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTCACTGTCCCCCACCTCT  
ACCATGATGTCTCATTCTGGAACCCCGAGCAGGGATAGTGGCTTGGGCCCTTCGTCTGG  
CTTTTCTCCCCACACTTGCTCCCTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAAT  
GGTTAACCCAGGAGGGAGGGCAGAGAACAAGGGCCCCACATCCTGGCTCTGCCTCTGACA  
AGCTGTGTGACCTTGGGTATCAGCTGACTCATCGGAGAAGTGAGGAGGACGGACTTGGGCC  
GTGTCTGGATTAACCTTTGTTGGGTCCCTGACCTCTTTGAGAACTGATGCATGCTTCTCA  
AGAGCCGCAAGTGCAATTTACACACTATTTACGGCACCCACAGATCGCCGAGATTACAGGC  
TCCACAGGCTTCATGTTGAAAACTCCTTAAGTGACAGTGGTCAAGGTACCCACCAACACTTA  
TTTAACCTTGACAGTTTGCAAAGNNN

&gt;931

&gt;932

### Table 4

**>933**

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAACACACGAAC  
TGAAAGGACACACACCAAGTATCAGAACTAAGTCACCCATGGGGAGGGACAGAAGGAAATAG  
GATGGAAAGGGGTTGAGGGACTTCAACTGTATTTGTGATGTTTTAGTTCCTTTAAAAACAAAAAT  
CTAAATGACATTTGAAATATGAAACCAACGCAGAAAACATCAAAATGTCAACAATACTTAAAC  
CTGAGTGTTGGGTGCCTGAATGTTATATTGGTCTCTG

**>934**

ACCCAGTATATGAGCAATTGCTCAGCAGTGTTTGGATATAGGGAGTGGATAGCTATT  
ATTAATTCGAGATTATTTTGAAGGAAAAACACACGAGAAATTATGTATCTTTCAGTGTAAATG  
TTAGTTCTAAAAACAATCATATTATTTTACAAAGCTGCAGTTATAGAACAACATTTCTGATTTCTG  
CCTCACCCCCACGGTTAATACTGTAAAAACATTTCTCAGTTTCATCTGATAGTGTATTAATAAA  
TAGCTGTTATTTTTAATAGCTATACTAAAAACATAAAAAATGTTTAGGCCAGGCGTG

**>935**

ACCTAATTCATAAGATAAGGATTAAATGAATTAAAATATATAAATCCCTTAGATAACAA  
TGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAAATGTTGTTGTTACTGTTATGGAATTT  
ATCACAAATATGTAATTATATGTTTCGTAGTGATTATTCATACCCCTACTGGACTCTAAGGTC  
TGTGAGGATATGTCTATTTGGTTTACCACTGTATCCTCAACAACCTGCTGGTTGTCCCTATTGT  
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GAAACCAGATAATCAAAAAGAAAGAAATTAATCACTTAATAAGTTTCATCTCCAGGGATAAG  
AAAACATAGGTAAGAGAGATTAACTACTCCTTCAAGTTCAGGCAATTCAGTATTCTAATTG  
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TTAAAACATAATTTAGAAACCGATCTTTCTATATCCCTCTTTTCTATACCCCCCAATTTTACTT  
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CTTTAGGT

**>936**

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CAGTGACCAAACCTTTTAATGAATACAGGAAGATTTTCTGAAAAAGATGACATGTAGCAGACA  
GCTGACAGACGAGTTTACCAGGTTCAAGCTTAAGTGATAATAATCTTTTATCATAAAAATTTT  
AAGTGTGGTAGCAGATAAAAAGTTTTGAATTAATGTTGAATGAAATGTGTTATG

**>937**

[illegible]

Table 4

AGGTCAGGAGATGGAGACCATCCTGGCCAACACAGTGAAACCCCGTCTCTACTAAAAATACA  
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TGAGGCAGGAGAATGTTGTGAACCCGGGAGGCGGAGCATGCAGTGAGCCGAGATCGTGCC  
ACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAACATTA  
AATGATTTTTCATTTGTGACTCCATCTCAAAAAAAAAATATATTCTTTAAAAAGAGAGAGAGAG  
ACCTGGAGTAGAGATTCTGTCAAAGAACNNNNNNNNNN  
>938

NNNNNNNNNNNNCGNGGGTACTTCTAGAATTAATTAATAGATATAATTGATTACTGG  
TCAGAATAGCAAAAAGAACTAGAAAACTTGAACAACACTAAATACCAAGTATACTTCACCAGA  
TATCTATAGAACATTCCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTG  
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AAAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATA  
ACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAATTAAAAAACACACTCCTTAAACAAC  
CAGTGGGTGAGAAAAGAAATCACAAGGGAACTAGAAAATACTTTGAGCTGAATGAAATGA  
AAATGTAATATACCAAACTTATTGAATGCAGCTAAAGCAGTGCTTAGATGGAAATTGATAGC  
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>939

NNNNCTCTTCTTCCATACTCTTTAATTGGATATGCCAGTGTGTCTCAGTAATTTCCA  
GTGGCTGTAAACTTTGAGAAATTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATT  
GCTTATTAAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTT  
TTCCATGAAAATTTCAAGTGGTGACAAATTATAGAATTTATCATTCAATTCAGTCTTAACTAGAA  
ATAATTGCATATAATAAAACAGGTTCTTGACTGTTCTTTTGTGAGTGTAAAGAATAGAGACA  
AAATAAAGTTAGATTTGAGTGCCTCAGAAAGATATTAGAAAATAGAGATAAGGTTTATGGCCTT  
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ACTCCTGTAATCCCAGCAGTCTGGGAGGCCAAGGTGGTGAATCACCTGN  
>940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCAGAGAAGCAAAGAAATGTGCCCTAGGT  
CACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTGAATGCCTCCAAAGCCCT  
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CTTCAGGTTTAAAGAAGAACTATGAAAAAGCAAAGATTTTTGTTTTCGTGGTTTTTTACTATA  
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>941

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GGTGAGAGAGCAAAAGAGAAAGGATTGCAAAGAACTGGAATGTAGAGGATGAACATATTG  
GTAATAATAATACTGGTGGAAATTGTTATTGAGGAAAAATAGCAATTATTCCTGTTTATATCTC  
AAATCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATATAAAATGTTA  
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GCCAATTTTCCATAACATT  
>942

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GCTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAATTTATTTTGCCAACCCAGTAGAGAAC  
AGCTGAGCATCTTCTCATGTATTTATTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTAT  
TTATTGGCCATTTGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCATTTTCTAGTGATAA  
AACACTGAAGCACATTTTAAAGACTTCTGATGATTTTATTGTC  
>943

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TCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCAG  
CTGTTCTAGCTCCATAAATTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTT  
CTTGGTGAAC TAGACCTTTTATCATTAGGAACTGTCCATATAACCA  
>944

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAGGGTAATCGATG  
GGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATGAATAAATGTATATAGATAG  
>945

Table 4

AAAGTAGAGACCTTGATAAAGTCAAACCTCCTTGCCCTTACAAGTGTGTGTTGAGCAGCCATG  
CAAGGGAGATGCCCATCTGGCAGTGGCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGG  
AGATGGCATCCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGCAG  
GGGGACAGTGGTGATGTGAAATTGATTACATCAGGGTNGACGGAGTACCTGCCCGGGCGG  
CCGGCCACCGCGGTGGA

&gt;946

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAAGAAGAACAATAAATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGTGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTGTGAATGACCTGCCTCCTAGCTTTCATGCTATTGCCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATCCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTGATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTTAAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTTGCAAGGCAA  
AAAAAAAAAAAAATTTGCAATTTGATATTTAAAGAGATTAAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACTTGGCTGAGGGGGACNNNNN

&gt;947

ACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAGAAACAAAATA  
TGAGTAATTTCTAACTGTAGTTATGTTATATTAGCATAGTGAGATAGTAACATTAATAGAATTCC  
TTAGTGGAAATTTCTAATGCTTCAGTTCAATCTAAATTAGTATTAATACTTTAAGGCAGGAAAT  
CTGTCCGAAAGCATTGTAAATTTAAAAAGCATTGAAATGAGAAGCAGAAACAAAAAATATTC  
ATTTCTATGTATTGCTCTATCTATATTATATAACTGATTTACTACCATTAAATTATAAAATATTAC  
ATGTTGAGCGTATTGTCTTCTGCAGTTACTGATTTATAACTTTAATAGTAACAGATGTAGCTT  
TATTACTAG

&gt;948

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGGAAAGAAGAACAATAAATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGTGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTGTGAATGACCTGCCTCCTAGCTTTCATGCTATTGCCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGGAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATCCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTGATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAATATTTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTTAAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGTCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTTGCAAGGCAA  
AAAAAAAAAAAAATTTGCAATTTGATATTTAAAGAGATTAAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGAACTTGGCTGAGGGGGACNNNNN

Table 4

&gt;949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAATGTAATAG  
GCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGTAGCTCGGAGAGACGGTGTC  
TACTTATTCACCACATCATGAGATCACCTCAAAGTACGAGGAGGAGCAATGAAAACCGTGAG  
CTTTCTTTACATTAACTTTCTGAAAGTCATTTTTCTTATTCCACTTTGTGCCTTTTTTAAAAG  
CTGCAGCTTCATGGAATTTAATCCTGGTATTTAAACACTN

&gt;950

ACTTGGTAGGTTGATCTCTTTTCATTCTCATGGTTTAATTACCATCTATTCACTGATTAC  
TCCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGGTCTGCACCCACATATGCAAATA  
AATACCAGATATCTCTCTTGGTTATATTGCACATA

&gt;951

ACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCTAACTTCT  
GTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACTTTTGTATTAAGCATTGTTGGGAAGA  
AGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACAGAGAAGATATGTTTTTC  
ACGTCTCTAACCAGTGTTTTCTATAGTGTAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAAC  
CAAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAACT

&gt;952

ACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTATAACGTAATGT  
AAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTGGAAACCATCAAATCTGTTAAGACTG  
AAAAGAATACCAATGTTTAAATATATCTATAAAATGCAGGTCAAGGGGCTAAGAAAATTGCAA  
CACTAGAAAACCAACAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCCAAAAAGCTGAATTTTTAGGCTTGCGTGTAAGTA  
GATATAGAAGAGTGCACTTTTGGGGATCCTCAN

&gt;953

ACCACCAATAATTATGCCACAAATTTTATCCTAAATAAGAGTGATTCCCTGTTCTTTTT  
CCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAAAACATGACCCCTCCATCCAGAACC  
AAACTAAACTCAGGAGTGATTAGAATCACCTGTGGGCATTTTCCCCCAAACCCATACTC  
TGATAGTTCTGATAAGCGCTCTTAAAGAAGCTACAGCTCTTCCCCATTCCCTATCTGAAAGCA  
AGGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGANNNNNNN

&gt;954

ACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGAATGCCAAGGGG  
CAGAGCCACACTTCCTATGATAGTTCTTGCTATAAGGTGCTATTTANNGTTCTCTACATTTA  
CTCCATAGTAAGCTGTTGTTTGAGAAAAAAATGCCAGTTTGGTGCGTAGTAGANN

&gt;955

ACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAGCATAGCACCTCCATTGACCCAC  
ATGGGGGCGCTGCCCTTGGGCTTCATCAGCCCTTTGGAGTCTCAGATCCCTCACCTGTTAAAG  
GAGAGTAATACTACCCACTTACCTTTTTGGGTTGTTGTAAACACACATAAGACAGTATTAGG  
AGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGA  
ATTGGATGACAGTGAACCTTTGCAGCATTTCTAACCTCAGAAGTTCAAGAGCAGGAGCCTGA  
GTGTTTTAGGTCCCTGGTATGGCTGTGGATTTCAGGCATGCAGCAGCTCTGGGGCCCCCTG  
CTTCCTACCCGCCAGTGTTCCAGCTCTTTGATTAAGTGAAGGGAAATTTTTCN

&gt;956

ACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCAGGTGACATAAT  
TTCAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAAATATTCTTAAAAAGAAAACTTAG  
GATTTTTTTTTACAAAAGTTAACTTAAATGCATTATCTAGAATAATGTTATAAATCAACGTATA  
GAGACGTTAGTGAATAGTTCCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAACA  
AATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGN

&gt;957

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTTTTCAG  
CTGTTCTAGCTCCATAAATTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTT  
CTTGGTGAAC TAGACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;958

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAAATAA  
TAATGCTTATAGGGTAAAAGAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCC

Table 4

AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTAAGGCTGAATTTGATGATCTTGAAAAATCC  
TTCCAGATTTACAACNNNNN

&gt;959

&gt;960

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
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GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAAATATGAAACAAATATTAGCATTGTGTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNNN

&gt;961

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACACTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAAATATGAAACAAATATTAGCATTGTGTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNNN

&gt;962

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGAAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;963

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGAAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;964

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATAAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA  
AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAACCAATTGGAAATTTTAGATGGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNNN

&gt;965

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATAAGGGAAGAATGAATTCAAGAAAATCCCATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGAAACCTATACAA

Table 4

AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAAACCAATTGGAAATTTTATAGATGGAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNNN

&gt;966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACCTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTTCTAA  
GATGAGAACTGTAGTGTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACCTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTTCTAA  
GATGAGAACTGTAGTGTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCAGTAGTCCTGGGAG  
CTGTATTTTAAACATCTTGACAATGTTTATAGTTCTGCGNN

&gt;969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCAGTAGTCCTGGGAG  
CTGTATTTTAAACATCTTGACAATGTTTATAGTTCTGCGNN

&gt;970

&gt;971

ACCAAGATTATGATAGCCTCTTAAACAATTTGGAGGTTATAACCTTTTTCTATTCTCT  
GCAACAGTGGATATAGGATTGGAGTTATTTTTCTTAAGTTTTTGGTAGAACTAGCCAGTG  
AAGTCATGTGGGTTTGGATTTTCTTTGTAGGAAGGTTTCTAATTAATTAAGCTTTTCAAAT  
AGTTATGAGAATATTCAGGTTTTCTATTTCTTCTGTGTCAATTTTGTGTCTTTTTCTATAAAT  
TTGTTTCATCTATAATTTAATAATTTTGGTATAATTTTTTCAAATAATCTTGATTTATTACA  
AGACAGGATCTTAATGTTAATGACAGGATCTACAGTGT

&gt;972

NNNNAAGGAAATTTTTTCCCCAAGGGGGGGGGGCAATTGAAATTTTGGGGGC  
AAAAAATAACCTTTTAAATGGTTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTGGGGGTAATAAATTTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAAATTTTTTATTATGAGNNNGANGAAGGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACCTAAATACCTCAAAATTTCCCTGTTATACATGC  
AGATCATTCCCATTCAGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCCGCT  
CGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

&gt;973

NNNNAAGGAAATTTTTTCCCCAAGGGGGGGGGGCAATTGAAATTTTGGGGGC  
AAAAAATAACCTTTTAAATGGTTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTGGGGGTAATAAATTTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAAATTTTTTATTATGAGNNNGANGAAGGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA

Table 4

TTTCAAAGCACATTACAAAGGGTATGTCACCTAAATACCTCAAAATTTCCCTGTTATACATGC  
AGATCATTCCCCATTACAGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCCGCT  
CGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

&gt;974

&gt;975

&gt;976

ACCTCTCATTTGTCACCTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCCT  
GCTGGGTGATCCAGACCACACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTT  
TTCATTTATGTCAAGGCAGGGGAAGACCTCAAAGGGCTCTTGCATCCCAGTCTCACTTCCCA  
GAGAGGCACGAGGCCCTCCAGGATGTGGGGACAGGAACCTTGGGGCAAGCCGGGGCTGT  
CCAGAAGATCACCAGGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCA  
AACTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGG  
GCAGCTTGGATTTTGTGCCCTTACAGGGTCGGTATTATATAATAGAGTCATGCATATTCAGTAG  
GTTTGGGGGAAAAGCTATATATATTTATGAGGGGAGCCAACTACATGGGCAATGGATAAACA  
TACATGTAACACATCCCATGTTCACTTAGGGGCAGGATTTTAGCATTAAATGAGGTGGAATT  
TGGCTCTTTACATCAAAGGTGAGCTATCAGACACAAAGGCAGTTTGTGCACAAGCTCTCCA  
AAGGGACTTGAGGGCTACAGCTGCTCATCTGGAAAGAATCCTTGTAAGACCAGTCCTCTGTC  
CAACCAGAGTTAGGAGGCATCTGACAATTTGCCTGATTAGCTGT

&gt;977

ACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGTGATTCTTTGTA  
GATTTTCTGGAAAGTCTTGTTTGTGTTGATTAAACATTAACCTGCTGTATGCTGTAAATACAC  
TGCTAAGATCAATATTGAAAACGAACAATAATACCAATTCATATGGACCTTCAAATTAGTCTT  
ATAAAATTTTATGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAATATTCTAACT  
TTAACCAGGTGATTCTTGCACTTCTTGTTTAAACCTCAAGTTTAAAAATATCINN

&gt;978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGGAGTAAAG  
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TTAGAGTTTGAAGACTCTGAATGAATGCCTAAATTTAGAAAGGGTGTGGACCAAGGGATTTTG  
GTTAATGTTCTCTAAAGCAGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTAAATTTT  
ATTATTTTTTTTCCCCCGCGTANN

&gt;979

ACCTGGCAGCAGAGTAGGCACTAATATGTGTTGAATGAGTAGGTGAAATAAACAAAA  
ACCTAATGGCGATGGAATTTTATGGAAATAAGTAAACTTCATTATTGCTGAAAATACCGCAGA  
TAAATAGAGGGAGGCAGTGTAATAGAGTGGAAGAGCAGTAGACCAGGAGTCAGACAGTCG  
AGGATCTCATTCTAAATTTGAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCAC  
CTTGTTTTCTTATCTGTAAAGGGGGAAGTCATAATAGCTACTCCTGCCTAACTCATAGGTTG  
TTGAGAAAATGAAGTGN

&gt;980

ACATTACCTTTTATGTATGCTGGAATAAGAACTTGTGTCTACATGCATGTAGAAACAA  
TGGAAGGATAGGCAAGAAAATGAAAAAAAATGATAACCTATGGGGAGTGATGGCCACTAGA  
TGACTGGGGACAGGGGCTGGTGAGTGAGCGCAATTATCTATTTAAACAATCAGAAATGCTCC  
CTAAATTACAAGTTTCTAGTTAAATGCAGTAAGAAATCCCCACAAGCTCTGCAAAATAAGTT  
CTGTCAATCAAATCTTACATGATGCATTAACCTGAGCTATTTTAAATACTACCATGAATTCATC  
TTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTTTTTCATACATTGCGTTTTCTAAAGT  
TGATTACACTACACAAAGAATACAATATTAAAGGACCATTCAAATTAATTAATTTTGTCTA  
ATTAAGGTTAAATCAATGTGTATTACCAACTCAAGAAGATAAAGACCGACNN

&gt;981

CCTTTGTTTATCTTTGCAGTTTGGTGGTTTTCTGTAATGATAACATGTGGTTCCATTCT  
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TATAGCCCTTTTGTCTCCAGATGTAGGACTCTCTTAAGCATTTATTGTAGGGTCAGTCTAGTG  
ATAATAAATCCATCAGTTTTTGTCTTATCTAGGAAAGACTTTATTTCTCCTGCATTTCTCAAGG  
AGATCTGTGCTGGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGA  
AATGGCTCTTTAAACAATGAACATTTCTGCCACTCAACTGACAGATCCCAGGAATAATGTTTTT  
CAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTGGCTGCCCTGCCACCCCATAGAA  
GGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAACAAGTCAAGGAGGTGAT  
GGTTTGCCTTGACATCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTTCATCA

Table 4

CTGCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGGGGCTGAATAGT  
ATACTGTTAGCTCAGGCAACAGATGAACCTCTGCCTCCATGCGCAAATACAAAAGCTATCTC  
TGCTTCTTTTTCACTCACTTAAGATTTTGAAGAATGGCTCCTAAAGCGGGTGATCATCTGCC  
CTCAGGACCTACAGTGCCTCAGCATCACATGCTATTCATTTGCACAGCAAAACCAGGAAGT  
GAATATGACTGTTATCCCTACTTCACAAGTAGAGAACTCTGAGGCCCTGAGAGGTTAAGAGG  
TGCAGGTAAGATTTGAACCTACGGGCTGTGTGCGGTGGCTTATGCCTGTAATCCCTGCACTC  
TGGGATTACAGGCGTGGGCCACACACCCGGCCTACTGCCTACCATTTGCCCAAGCTTCC  
CAGTACTAGAAGAACCC

&gt;982

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTCTCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGGAATAAATTAGCATTCACTGCCAGCTCTCTAAAGTGTTGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAACCTCAGGTTA  
CTCAGTAGTCACTTTGCTAATTTCTGAGAAGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAACTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCATTCACTCCCTGA  
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&gt;983

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&gt;984

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&gt;985

&gt;986

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&gt;987

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&gt;988

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Table 4

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>990

>991

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>992

>993

>994

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>996

>997

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>998

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>999

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Table 4

&gt;1000

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&gt;1001

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&gt;1002

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&gt;1003

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&gt;1004

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&gt;1005

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Table 4

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&gt;1006

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&gt;1007

&gt;1008

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&gt;1009

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&gt;1010

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&gt;1011

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&gt;1012

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Table 4

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Table 4

&gt;1019

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&gt;1020

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&gt;1021

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&gt;1022

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&gt;1023

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&gt;1024

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CTTGCCAGGTCACTTCTATCAGTTGATGACATGCCATATGTTATGGCTAGGTCAAGCTTTCCAC  
AAGTATGCACATGCAAATAGAAGTGGGAAAAAATCTTTGATTTGGCCCTCTACCAAGTGG  
ATCAGTGTGTCAGAGTTCAGTTGAGCAAAGGTCAGAGTTTAAAGTTGAATCTCCAGTCACTCTT  
TTGAAGATATTTGGTGATGCCAAATTTAATTTAGGATATTATGTAGGTAAGTATTCTGTCAAGT  
CATTTATAGTGTGAATTTACAGGATTTAGCCTTAGTCCGAGAAAACTGGCCCTTGCCCGAG  
ACTATACACCAGGCAGTTCTAAACATATACAATTCATGTTAAGGAAAAACAGATTTACAACCT  
ACATTACTCTAAATAACATTTATTTCCATGTGACTTGCATGTCTAAATAAAATGAATTTGGCT

Table 4

TAGTAAGGCTTTTCATTTATCTTCATCTAAACGCTTTTCCACCAGTACTCATCACAAGACTCCC  
CAAGGTTATGAAGCAGATTGATATAGAACTCCATTTCTAGGACAAAAACGAGGCACCTTGA  
GAATGGACCCAAGCCATAATAAACTAGTAATGCATTTTCCACACAACCATATAAAATACAGT  
GAGCCCTTGATCAACCTTTGCACAAAAAGAATTGCTCATTAAAGTCTTTGATTTTTAAAAAATG  
GCACTTGGTTTTCTAGAAAGAGGATCTGCACACTAACTATTCGATTTGTTTGAATATAGTCAG  
ATTATTATGTCTGTGTTTATTAGGCTTAATTTGAAAAGATTTTTGGTTAGTATCTCCACTTCTAT  
GATCAAACACTATAGAGTTCAAGACCAGCCTGGGCAACATAGTGAGANNNN

&gt;1025

ACTTGTTTTCTCCCTTCGGACCACTCTCCCCACTAGACAGCTGTATGGCCGGCTCC  
CTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACCTCATTGTCTCAAACATTATATAG  
AACACACACGCACCCATGCACGCACACCGTCGTTCTTCATCCGCCTGGTTCCGTGCACTATT  
CCAGGACCTACAGCAGTGCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAAATGAATTT  
ATAGTGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAGGCCAGGCG  
CGGTGGCTCACACCTGTAATCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACTTGAG  
GTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCGAAACCTATTCTTTACTAAAAATACAAA  
AATAACCTAGGGCTGATGGCATGTGCCTATAAN

&gt;1026

NNNNCGANAGTCTTCTAGNATTAATTAACCTAGTTGAAAGTGTTCTGAAACTTGCCAG  
ACTCAAAGTGTAGAGCACAAACAGCAACTGTGCTTGACCGTACTCCTTGGTTTACATCTATTGT  
CTTGACAAAAATATTAATAGCATTTCCTTTCACTTTTAGAAATACTCGAGTTTGTATGATAAATT  
TAGGTTCACTTTACCCTCATGCTATAAATTGGTGGTGTCTGGTTGGACTTGGTGAATCAGG  
AGATTGTATAATCAACAATTACCCAAAGCAGAGATTCTGATTTAGTAGGCCAAGGGTGGCCT  
ACTAAATGTGCATTTTAAAGAAGGCATGTCTAAGGATTCAGGTAGTAGTGTGAGAAGCAGTAC  
TCTGTTTCTGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGCAG  
GGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACATTAAGATCATGTTT  
CCTACTGATTTTAGTTGCTAGTCATTTCTTAATCTAAGCACCCCTATAATTTACCTATGTCA  
TCATGCAAAATCACCATCGGTAATAATGTGGGGCGGGGAAGTCTATACAAGAATATTAAG  
GCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTTGGTGCA  
AACAGCTGAAAGTAGAAGTAAATCACACGTAATAAGATGCAACTTTGGAGGAGCTCAAAGC  
AACAGATACGTTTTTATCCAAAAGGAGTAAACAAAAAATCGTCAACGGCAGTTCCCTTCAG  
ATAATCAACTGATGATTTTCATTTGAAAACCATAATTAACCTAGCGTTGTTTGTAATAAATTTT  
TCCATTTATACTTTTAAATGTTTATTAATTAATTTCTCTATAGATATGCAGATAAGATGTTTT  
AAATGTGTAAGTGGTATAAATGTCCCATGTGTCTTTATTCTAGAGCATAAGAAAAGATGGGA  
AGCTACCTCAAACCTTGTGTTGAGGCAAATGTAGTATGAATCCCTAAACATAACACCAGTACTG  
CTAAATGACAGTTATCTAATCTCACTGATGAACAAGAATANNNNNNN

&gt;1027

ACTAATTCCTTTCTCTTCTCTAGACCGATTCTAGTTTGTTGCCTTCCCTTCTCCTCGG  
AAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGC  
CAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGA  
GCCCCAGTTCTTCATGTTAGGTGATTTCTTGCACTCTTGGTATCTGCAGAAATTAGTGTA  
TGCTTAAAAAATATTAACAGCTTTATATCATGAAAGTTTTAACATGN

&gt;1028

&gt;1029

NNNNAAACATTTNAGACTCACTGTGTAGCCTTCTTGGAATCGGGAATTCGCTTAATG  
CTGTCCGTGAAAAATAGCCTTTAACATCTGTTTGATTGAGATTTGTGATACATAGAAGTTGG  
GAGGAAGATGTGGAAAGCCCTAAGAGAGCTACTTGCCAACCCACCATCAGGTCTGCCTCA  
GTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATA  
AACAGACCACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAANNNN

&gt;1030

ACTTTGACCTGTATGTAACTCTAGTTACTTTGGTCTTCTCAGGCTCTTGACTCTTTC  
ACAATTAAGTAGTCTTTGAGGCTCAGCCTGCTTTCCTCATAGCTATGCTATGGCCTGGACA  
CTCAGGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTTCTAACTTTTCAGGGATTATT  
GTCCATCATTGCCTGATGTCCAGTGTCTTGAAAAGCAATT

&gt;1031

ACCATTGTTTTGTTCAAATCACAAATTTAAATACTTCGTGATTTTAGAAATAATGGAGC  
CACGTTTTACCATTAAGGTGAGTGATTGTTTCAAGATACATTTGGCACTGTCCATAGGTTTATG

Table 4

GCTTCCAAC TTGTTTAAGACCAT TCCCAGAGTGAGAGCTGATTTGCCATGGTTATGAAGCTTT  
CAGGATATAAACTATAAGAATGACAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCACT  
TGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTT  
GGTCAGTAAGAGTGTAGGTAACATATAAATATTAATGTTTCGTTGCAGTTAGTGTGGT

&gt;1032

NCTGTTTCTGTGTGTAAAACGACGGCCAGTAGTCTGGGTCATAGCTGTTCCNNNN  
NN  
CAGCTCACTGCAGCCTCAACCTCCCGGGCCCAAGCAATCCTCCACCTCAGCCTCCCCAGT  
AGCTGTGTTCCAAAGAAATTTATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCC  
ACAGTTTGTCAACTGCCATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAAT  
GCTATGATATAGACACTGTGTTCCTTTAAATAGACAAAGGAACCCAGGCACAGAAGGATTGA  
CTAATATGACCAAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTT  
CACATCTTCCACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACCAGAGCCCAGGCAGTAG  
CAACGGCTATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATTGGCCAGAGCT  
GGAGGGAGTGGAGAACTAGCCATNTGTGACTTTGTGAACATCCCTGGGGAGTCTGGAATTA  
NNNNNNNN

&gt;1033

ACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAGTTCCAAAAC  
TTTGAACAGAACACTGGATGAATACTGTTTACTGAGATGGGGAACACTTAGAGAAAAATGCA  
TTTGAAAGCAGAAATACGATCAAGACTTCCATTTTTGATACATTAAGCTTGGTATGTTTAATT  
CATAGCTATATAGAGGTATTAATTGGCAGGACAAAATCATAGCTAGAGATAAAAATTTAGAG  
TTCACCAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGGGATTTGAGTATA  
CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
GGAGAATTCCTAAGAGGATGAGGTTCCACCTTAGGACCGCCAAAGAAGACTTCCAGACA  
AGN

&gt;1034

&gt;1035

ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
GTTTTGTTTTTAATCTCATTAACCCCTTGTTACCCATTTGATAACAAAGACTTCAAGGAAGAAT  
TTGCTCAAAATCTCTGGGAGACAGTAATAGCTTCTTGGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAAATGTGGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCTTTGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

&gt;1036

CCCACGCGTCCGATCAAACCAGGAGCAGGTGCAGCCCGGAGGCCCCCCCCCGTGG  
GGAGAAGCGGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGGA  
TGTCTTGGCAGGACTGCTCCTGAGAAGGATGGAGCTGAAGCCCTCCGTGTGTACAGTGAG  
CAGGCTGAGGCCAGCGAGGTTCCAGTGCCGCGTGTGGGCAGCAGGAAGCTGCTCAGGAA  
GAGCCCCCGGGAGGGGAGGCCGAACCAGAGCCTCAGGAGCATCACCTGCACCACCGGA  
TCCGGCAGGCCCCCAACCCTTACTCGTCGGAAATCAAGGCCTTTGACACCCGGCTGCAGAG  
AGGGGAGCTCTTCTCCAGGGAGGACCTGGTGTGTTACAAGAAGGTCTTGTGGGAGGCTCG  
GAAGTTCGAGCTGGACCGCATGAGGTCTCCTCTGCACCTGCTCCTGTGCAGCCTCTGCC  
AGCCTCAAATCCTGGACGTGAGGCAGATCCTTGTTGACGAGGCAGGCATGGCCACGGAAC  
CTGAAACCCTCATCCCCCTGGTGCAGTTCCACAGGCCGAGAAGGTGGTTCTTCTCGGAGA  
CCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCG  
GTCTCTGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCAT  
GAGGGCATCTGTGCCTTCCCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGG  
GCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAGCTGCCCTGTCATCT  
TTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACGAAGGGAATGAGA  
ACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAGCAGCTGACCC  
TGGGGAGGACCGTAGAGCCCCAGGACATCGCCGTGCTCACGCCCTACAACGCGCAGGCCT  
CTGAGATCAGCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCTCCATCA  
CCAAGAGCCAAGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGTCCGCACCTGTGCCA  
AGAGCGACCTGGACAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTCTGGGCTTCGTTGT  
GGACCCCAACCAAGTGAATGTGGCTGTCACGCGGGGCCAGGAGGGGCTCTGCCTGATCGG  
AGACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCT

Table 4

CAGCAGACCCTCGTGCCTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCC  
TGAAGAGCCCTCTCCACCTGCAAGGTGCCAGGACTGGGCAGGGAAAGTCCACGGGGCCCC  
ACGAACGGACCACGCCCTGCGACATCACCCGCCCGGGCCAGCCTGCCTCTGGCCTCAG  
GCTCCCCTGGGCCAGGACACTGAGTGAAAAAGAAAGAAGAACGAAACAGCAACGAGACC  
CGCAGCACACCAGACCACACCTGGCCCCACCAGGCAACCCAGCACAAACCAACAATGACACT  
CAAAGCAGCAACCTGCGACCAGCGACAGTGAACACCAGAAAGATCAAGGACCAGACACCAG  
CAAACATGTAAAGAGAATCCGTGTGAACGGAACAACAACAAACAATAGAACAACACAACAG  
ACACACAAAGCGACAACAGCAGACCGACTGAAACACCCGGCGTAAGCAAGCAGCAAGACTG  
ACCCGGTATCTATAGAAAGAGAGAGTCACTGCTACATCACAACATCACTAACTGAGGACAC  
GCGCAGCAGCAGCCACACAGCGAAAACGAACGACCAAGACACAGCAGACCCGCGAGCGAT  
AGCAGCGCACAGCACAGACATCACAGCAGCCCCTACGCGGCCCGAGAACCCGAACAGGAG  
AGACGAGCACCCCTGCCAGACGAAAATGAACGAGCAGCCAGAAGAGGGCGAGGAGCGACCG  
AGGAAACAAAGGCGCAGAGGGAAGAAGAN

&gt;1037

ACCATTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
GTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATAACAAAGACTTCAAGGAAGAAT  
TTGCTCAAAAATCTCTGGGAGACAGTAATAGCTTCTTGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAAATGTGGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCCTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

&gt;1038

ACTTTGACTATTTTTAGCAACAAATTACTTTGACACACAGCACAAATTGATTTAACAC  
TTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTAAATAAAGCAATCCGATTCTACTA  
TTACAGCATAGGGTCTCTTGATGCTCTTAGTAAAACTATTGTGACACTTCCCTCTTTTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACTTTTTT  
TTCTACGGAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
ATTAATAGTTATATGGTATTTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAGAATATAGG  
CTAATTTGGAGCATAACACTAACCAGCATGAACCTAAGTGAGTACN

&gt;1039

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTCTCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGAAAAAATAGCATTGAGTGCCAGCTCTCTAAAGTGTTGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAACCTCAGGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCATTGAGTCCCTGA  
AATGTACAAACTAGTTATTGCTCCCTTTTTCATTTGAGGATACTGATGCCAGATAAGATAA  
GTGGCTTGCCCTGGGTCACATAGCTTGTAATGCCGAGCTAGCATTGTAAN

&gt;1040

ACTCTTATCAACTGTTTTATAGATGAGAAAACATTAGCCACAGCTTAGCTTATTTGAA  
GTCACAATAATATTAATAAGTAAGAGCAAAAGCCAAGATTCAAATGTAGATTATTTTACTACA  
GACTGAGAAACGAATTAACTAGGAGCCTAAGATACTTTCTGGAATTGAAATGATACATTATA  
TATACCTATAAAGATAATTGGCTATAGCTTCTTAACTACAAATTGTCATAAAAATGACTTCTG  
TCCTATATCAATTAGAACTGGTATTAATTAAGTATTATAAGACAATAGAATGN

&gt;1041

NNNACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGGTCAA  
GTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAAATTCCTGGCCTGAAATATGTCACT  
AGTTAGAAACATTAGAAGCTTTGAGTAAATAAATAAAAAACAGTCAACCGTATTCTTATT  
TCTTCGTCAGAGAATCATGTGTCGTTTGGTTTAACTTCTGCTGGATTCTGGATGGGAGTTGT  
TGAACATATTAATCTCATTATTTCTGTAGAGGACAGGTTGTCCCCCCTTCTCATTAGCGC  
CCTGACTGCTTGTAGGGCTCTCTGCCTCTGGCCCTGTGACCAGCACGTTGCTCCAGCAG  
GCAGCAGTGCGTGGGCTGCTCTCCATGGCAGAGACAGGGCTGTGAAGCTTGGGT

&gt;1042

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC

Table 4

ACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTTCTATTCCATATCTTAAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTTCCATGGTCAAAATTATTAGTCATTGCAAAACAGAAAAGTTTGA  
CAACTGGAAANN

&gt;1043

ACCCGTTTGTCCATGGCTATTCCAAATACCCCCATGTTTATTTAAATGTATATATAAT  
CAGTTACATAAAAAGAGGTATGCTTAAATTCTCATGACTCTATGGTTGGACCTCTGTGGTTGG  
AGCAGGCAATAGAAATGTCTGTAATTCATTTAAAAAAGTGACTTTCCCTACCTTTAGATA  
GTGAGGACAATCTGTTAACTCTTTGTGTTGATAAAAGCAAACATTTCAAGGGCACGGTGAAAG  
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGGAGTTAGGACCAAATTAAG  
ATTTGAC

&gt;1044

&gt;1045

NNCGTCCGGTCTGACCTATTCCAAGAGTACAGCCATCAACAGTTAGTCCCAAGAGT  
TGGAGGCATTGTTGGGGAAGAGATTGCAATAGACTGGTGCAGATCAGTTACCTGAAGCTC  
CTGCCTTATCTGAGGCCTGGTGATGCTGCTGTGTGCCCAGAAGCCAGTCATATGGATGTCTT  
GACCTGTCCAGCACACACCTCAGTAGTAGGAGATATGGGTCTTTGGAATGCTTTATGTGTGA  
TGAGGATGAAACAGTTAAGTGCTACTTTCTCATCCTCGGCCTTATGACATTAGTTAGTTGTGT  
AAGATTTTGCAAGGAGGTATTCCCTCCTCTACCTTTTCGTCACAAGCCCCTCTCATTCTCT  
GAAAAGGTTCCATACTCCAGTCCCTACCCTCAAAGAAAGATTTTACTAAGCAAAAGTCTAT  
GGCTCTCTCTGTTCTCTTGTCTTAGCTAGCAGCTAAACTGGGATCTCACCAGTCTGACA  
GGGCAACCTCCAAGATTCACAACCCAGGAAAAGTACTGCTTTGCGTAAGTTTAAATCAAGACC  
AGAGCAGAGACAGGACACAAAGTCAAAGAAGTCAAGTCAAGCAGC

&gt;1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACATTCAAATA  
TTTCCCATTCTGCTTATTATTCCTCTCTGAAGGTGATACATAGAAATATAGGAGCAAACACAG  
CAATGCAGGCGCTCTATGATCTGGTTTGCTCACATAGATCTTAAAGGAGAAGAATGAGGGA  
TTTGCCTACAACCCACAGCCAATCTATGTGGACACAAAGGGTGACTTCTTCTTCTATTACGT  
TCCTTGAGGTAGAAATGGTAACTAGCATGACCTCGAATCATAATTTAATATCATTCTAN

&gt;1047

ACATTATTGGTAGTATCTCAGAATCCTGCTTAGCTTTTGAGATAAACCAAGTCATGAT  
ATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACTGCCAGTATTTGCCTTTTCA  
ATATTTACTTTGTAAGAACCTGACACTGTAGGTCTCACCACACCAAAACCTGCAACATAAAC  
TTCAATTTGGGCAACTCATAGACCAAAAAAGCTAAACAAAACAAAAAGGAAAAAACCTCTA  
TATACAATCACCTGCTTGTCTACATTTAATTTGCTTCATTCANAATAAGCAGTCACN

&gt;1048

&gt;1049

GGGGACATTTAGTTCGGGCATGAAAAAGAAGTTAACAAGCAAAGGTACCTATAAACA  
AAGGCATCATAAATAGATATAAAGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAG  
GCTGACTCTCCAGTTGCAGATTTTCATTATCAGCTCATCACACCACCGAAACTCTCTGGTGAT  
TTGCTATCCACATCCATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCTCTTGG  
TTAAATGGCAGGTGTGTTGACAAGAAGTGTCTTAGGTACCCCTGCCTGCTGGGCATCACA  
TTCTTCTTGGTATATATTAAGAAGACACAAGTTTGGGCCAGGCACGATGGCTCATGCCTGTAA  
TCCAGCACTTGGGGAGGCTGAGACAGTGGATCATTGGCGGTGAGGAGTGCAAGACCAGC  
CTGGCCAACATGGCAAAANNN

&gt;1050

&gt;1051

ACCCATCTCTTCCATTCTGGGAATCTGGGAACTAAGCCTGTAAGTGTAGCTTGTA  
GAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCATTAAATGCACAGGTTAAATAA  
ATAAAAATCTATTAATAAAGAGCCTAAAGAAAGAAAGATGACATTTAGCACATATTGGGTGA  
AATAAGTTGTTTAGTCCAGCACTTCTCAATTTTATGGGATATGTGAATTGCCTATTAAATGC

Table 4

AAATTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGCTCCCAGGTGA  
TGTCAATGCTATTGGTCCAAAGACTATGTTTTGTGTAGCAAGGGTTCTAGATACAATTACATT  
AGAAAAGATCAGAGAAAAGTGGAGTGATTGT

&gt;1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCAAAATGCTTA  
ATATGGCAGTATAATAATTATAACTAGATTTACTTCAAAACATAGACATAAAGAAGATTACATG  
CCTGTAGAAGTTCATTGAATTAGGAATCACATGCTATTTATTTAGCAGATATCTTCTTAATTA  
AATGTTTGACCCATGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATAA  
TCTATATGATCTGAATACCATTTCCATCTTTAAAATTACATATTCCT

&gt;1053

ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACATAAACCTC  
ATATCAAGTATAAAACCACACACACTTTGCTCTTCATCCGGACAATGCCAAAATTATACTGA  
GGTATTGGGGTGGGCTGATACCTTCAAACAGGGAGAGAGGGACCATGTTCAAGGAGGTGTAT  
TCCTCGATTTAGGTGGTGACTGAATTTTTTTTTTAAAGACAGGGTCTCACTCTGTCAACCCAGG  
CTGGAATGCAGTGACGTGATCTCGGCTCACTGCAGCATCAACCTCCTGGGCTCAAGCGATC  
CTCCACCTCANN

&gt;1054

ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAAATGAAAAG  
AGACGGAACATGTTTTCGCTTGTAACCTCAGTAGGATTAAGATCTCTTCTCTCCACGACTC  
TATAGCTTTAAAGCAATCAAATCAGACTGGTTTTGTCTGAACGTTTTGAATAAGTCAATGG  
CTTATTTCAAATTCATATGAAATTTCAAATGCCAAAGAATAGGCAAAATATTTAGAAAAGAA  
GAAAGATTGAGGATTTGCAATAACTGACTTCAAACCTCACTAGAAN

&gt;1055

NNNNNCAGGCTAGAGAGATGTTGGAAATAGTTGTTAAATTGGCTTAACCTTCTCAGG  
ACACCTTGTAACCCACCACGTTTCATGTCTCCTCTAGCCAACTATAAAGTTATTAACACAAGAA  
CCTGTCTTATTCATCACAGTATCACCCACAGGGCTGAGACAGTGCTTACACAGAAATGGCC  
CTTGATAAAATATGGGCTGAATGAATGAACATATGAATTTGACACTTTGAGAACTAAATTA  
GTTATTTCTACTAGCATTTTTAACACAAGAATGAGATTACTTATATATTAGTAGTAAATG  
TTTGCTTTATTCATTTGATTGGCAAACCTATAATGAACTCAGTGAACTTGTCCACCTTTTTCT  
ACATGTTGAAATTTCAAATCCATAAGATTACTCCTCACACACACACCTCCAAGTATCCATA  
GAGATGGACCTACTTCATACCATTATTTCAATCCAATTATTTCTAGAAATCCCATTGATTT  
CAGGGAATGAATTTGATAGCCAGGAGGCATTCCACTGGCTTCTTAAAGCN

&gt;1056

ACATTAACCTCACTGACTTACTCTGGGTTGCTATTGTATTAATTTCTGTATAGACATTA  
CGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAAAATAAAAAATTTCTTAAATCTTAGTGTGG  
TGTCTATTAATTTTTATGATGATTTACAAGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTT  
TGAAGTTAATAAGAGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
TTATGAAATTTGAAAAACGATATTTTAGAAAGCTTTCTCTTGTGGCTGGAATGAAGN

&gt;1057

ACAGCTTGTTCAAGATATTTCTTCTATTTTTCTTTGAGTTCCTTGTTTCATATTCTAGTT  
AATTTCTAGTAGTTCTTAATGTATTTAACCAATAGACTTTTGTCTTCTTCTGCTTATGTATTC  
CTCGTAAATGCTTTTTGTGACTTGTCTAAGTATAAACAACCTTACTATTAGCTGTAAATTTTC  
ATTTTAGTATGTCATCAATCTTTTTTTGTGTTTAGTATGATTAAATGTTTTTCACTTGAAAGA  
TATGAATAGTCTACTTCATTGATTTTTTTTAAAGTCATTTTATTTTTGTAGCTACAAAA  
TCAN

&gt;1058

&gt;1059

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAACTTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATTTCACTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAATGAACACATTTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTGAGTAGCAAATAAGATTGTTTCTTAATGTCATAATTCAATTNTCCC  
TGCTTCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN

Table 4

&gt;1060

CCCTTCGAGCGGCCGCCGGGCAGGTACAGTTACCAAACCCATCCAACATAAAAAAT  
TTAAGCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACATGT  
ATAACTACAGTAATTTTAAAACTGTTTTCTTGCATAAGTATAGAGAAATGTACCTCGGCCGC  
GACCAC

&gt;1061

ACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCTTCCTTCTTTGAT  
CTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACAAGGAAGTTTGAAATAGAAAGCCAG  
AACCTGCCCCCAAAGATCTGACAGTAGTAGAAGGAGATCCATTATTAAGAAGGTATAATGG  
CAACANAAGAATAATCACAAATTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGG  
AGATGAGGAAAGTGGTTAGGGAAN

&gt;1062

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAAAATTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCAGCTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCTAATGTCATAATTCAATTNTCCC  
TGCTTCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN

&gt;1063

&gt;1064

ACTTACTACAAGCAGCAAAAAGGAAGCTCTAGAACAAGGAATTAACACAGTGTTTGT  
TTCCAATCGCAGAGAGGCCATGAGCACCATATGTGTGCAGGCTTATCATCTGAACCAAAG  
AAAGGCCAATCCTTACCTTTCTTATGACTCTTATAGGCTGCAATATTTCACTTGCCATAAA  
CAACTTAATATCTCACACCTAGTAGTATTCAGTGACACAGAAAGGGAAAGAGAAAGGATGAA  
GAACAGAGGAAAGAGAAATAATTTCCAAGATACAAATTAATATTCTTCCAAAGCATAAGA  
GCAATTA AAAAATANNNNNN

&gt;1065

&gt;1066

ACCCACATGATCCCAAAGAGGAGGGGCCCTGTATAACAAGAACCAACCAACATAA  
AGCAGTACTACAGGCACCATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACA  
CAATTTTCCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAAGCATTAAATAGATACAACT  
GAATTTCTCAAAGTATATTAACACAGCCTACAAATAAATCCTCAAATGTACCN

&gt;1067

ACCCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATGAATTTGCAGAAGGATTAAAT  
GTGTGTTCTTATTTGTGCCTTTGTATTTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAAT  
AAGCTGAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAACACATNAG  
GTAGGAGCCNN

&gt;1068

ACTATATTAGTGTAGCAATTTTCCAAAAGCCATTTCATCTTAGAGGGCTAAATGATTTT  
ACCTTATCAATTTCCCTGTGAAAAATATCTCTAAAGAGGTTTTCTGCTGGAAAAATATTGTTG  
CTGTCACATTGATATGCCAACAAAAGCTAAGCAGGGAAGTCAGGCCAAGAAATATCTCCCTG  
CAAGAGAAGGCATCGCACATGTATCTCTCCATGCTATTTAAAATTGCATTCTGCAACATAGAA  
AGGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACCTGCTTTCTTTGGCCTTTACACACT  
CCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATCTGCCTTCTGTTGACTTAGTGTCA  
GCAGGTGGAGGGAGGAAGGAGGGCATCGCAGACATCATTCTATTATCTCAACCTTGCTTTCT  
CGGATCCAAAGGCCAAGAAGTTGCTGCTCCATGCCCTCAGAGCTCTAATTTGGCACCTCTTC  
CTGAAATGAGAGCTTGAAGGGCTTCTGCTCTGGGTGAAACCGGCTCGTGCCCGGGGCCAA  
TTCTGCTGGCTTCGCGTCTGTCAAGTGTGCTTAATCACTGTTATAAGTGTGGTTCTGCGGAA  
CATCTTGTAATAATTTTCTATTGCTCCAGCAACATCTCCTGTCTAGACAATCTAATTATGAA  
CACAGAGCAAATAGCTGAAGTGTATGCCGCCCAAGGGTGCATAACTCCAGGAATGGGG  
CTAGGAAGACAGGGGAGGGAGGTGTGTGTGATGTTTATTACTTTTTTTGTTGACCTGACCAGA  
AAATTGAGTGCTCCAAAAGAATCTGGCTAACTTTTAAATTAAGAAGAAATGATCTGTTGGAAGC

Table 4

TGGCATTGTTGTTTTCCAAAGTCAGTGGAGGATTAAGGTAAGTACTGATGTGTTCCCTCTAA  
TCACGTCTTTCTTGGCTTCAAAGGTGGTTTGTGGTCTTTCGGTAAAATAAGNNNNNNNN  
NNNNNNNNNN

&gt;1069

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC  
ACTGGATATTTTAAATTGTAGGGATGTCCTTGTCTGGGTCAATTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCAACATAAAACTTCTGAGATACCAGAAATTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTCTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTCCATGGTCAAATTATTAGTCATTGCAAAACAGAAAAGTTTGA  
CAACTGGAAANN

&gt;1070

TAGTGAACCTACTCGGCCTAAAAAGAAGTATTAGCAAACCCAGAAGCTAATACTGAA  
AATTTAGCGAGTCAGCTTTACAAAGACACGATCTTATCACATTTCTGTTAACACCTAAAAGG  
CCTTCAATTTTCCAAAATGGCCGGATCTTCATTGTGCTATTTTTAATAAGTTATTTTTGGAATA  
TCTTTCACAAGCAATACAAGTGGATTTTAAATCAATTGATACTTATAGAAAGAGTTTAAAGGAAA  
AATCTACCTCCTAAGTTCATTATTCACAAGTGTGTGTACATTATTAATGAAATTTATCTAGT  
CCTTGCAAACCTGTGCCTATTGATTTTCATTAGTGTAACCTAAAGAGAGAACTTCACACTGA  
CATTTATAATTGTAAGAACTAAGAACCAACCATCAGCTTTCTATGCCAATCCATGCCCTTCA  
GGAAGTTCTTGAGGCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCAG  
CTACATTTTGGAAAGAGGGAGAATTAAGTTTTTTGTTGTTGAATTTATTATCACTAAGTAGTGT  
AAAGCTCTTTTAGATTCCAAAAGGAGGAAAAATTGCAGGTCCATTAAATCAAATGCTGCAAAAC  
TAAGACNN

&gt;1071

ACCAAACTGAAAAAGATTGTGTATCCAAACATTATTTACATAAAATGTATTTTGT  
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GAGTTATCAATCAATACGTGACTATCAATCATTTATTTAATCATTATTTAGTTTTACANN

&gt;1072

ACTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTTTCACTCTTGTTGCCAGGCTGGAGT  
GCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTCCCGGTTCAAGAGATTCTCCCGC  
CTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGTGCCACCATGCCTGGTTAATTTGTATT  
TTTAGTAGAGACAGGGTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTG  
ATCCTCCTGCCTTGGCCTCCAAAAGTGTGAGGATTACAGGCGTGAGCCACCACGCCCTGCT  
TAAGTTTTAATAAGATCTCTTGCAACTTTTTACGACTGGCAACTTAGGTCTCACAAACACAG  
AAAAGCTTGTCTTTAAGTATATTGTCTTTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAA  
AATGATTTACTTTATAAATGCATGCACTGAGAGAAAAGATATTTGAATGATATACANCCACAT  
GTTAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAANNNNNNNNNNNN

&gt;1073

&gt;1074

ACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTGCTAGGAGCC  
CCGGCTTCTCCCTGACCTGCCCGTCTCCTACACCCTCTGGTCCTGCTCCACACTGGTCTAA  
TAACTGGTGTTCCACATTCCTCTAACGTGCACAACACAGTCTGCCCCCGTGCTTTTACCT  
CCTGTCCATTCTCTTATAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTTTGCTCATCN  
NNN

&gt;1075

NNACAGCCATGTGTACTTTATAGAAGTCTAGAGGAAAAATCTAGTATTTTGTGTTTTCC  
TATATATTTATTGTTTCTATTGCTCTTTCTTATTCTGAAGATGCGGCATTTCTTTTACGCCT  
AATGTTGACCTTAGCTTTTCTAGCAGATCAGTCTGCTGGGGATACATTCTTTGTTTTCTTT  
GAGAATGTATTTATTTTACTTTCTTCTAAAGGATATTTTAGGTGGATATATAATTCCGAGTA  
GATGCTTGCTTCTTGGACCTCAATGATGCCATTTAGCTGTCTTTTCACTTCTCTGATTTT  
TGGTGAATAATCTTTGTAATGTAAACCTTATCCCTCTGTGTGGTGTGTAATTTTTTCTAGC  
TGCTTTCAAAAATTTTTCTTTGTTTTGGTTTTGAGCAGCTTAATTTGATGTGTATCTAGTCAT  
TTTCTTTAAGTTTATCCTCTTTGAAGAGTACTGAGCTTCTAAATCGGTAAATTTTTGGCANN

Table 4

&gt;1076

ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCCTTGATT  
GTCAGGAATGTCTAACATTATTTGCTACTCATTGAGAAATAAACTGCCAACTAGTAGCATTG  
TTTTGTGTCTGATAGATTCTTCATGCAGAAAGAATAAGTAAATGAGATGGGACACAAATCTG  
AGTATAGCATTGTCATTACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGG  
CATAACAGAATCCACAAATTCCAGATTTAAGAAATAGGTCTATATAAAGCTTATTTAATATTG  
GTATANNNNNNN

&gt;1077

ACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGTGTGTATATGT  
GTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAGAGTTTTAAGCTGCTCCTGTCATT  
TATTGATGGTCAAAGGTTTTCTTTGGCTATTGCTGGACTCTTAAGATTGCTTGTAAATTGCTT  
TTTGTGTTGTTGAAAATTAAGGGTGTATATTAAAGGTAGTTTTTACCCAGATCTTATATGTGT  
GATAGCTCACGTCTGTAATCAGAAACCTACTGTTAATGGCCACCCAATTGCCATTAGCTTCC  
TAGAGGGTGATTTAATAAACTATCTTCTTTAACTCATTAAATAGAGACATGTTTGCATA  
CAATGGATTAATGACGTTTTCACTAACCCACAAAAGTCTGCTGCACTTTCTTTGTAGGCC  
TAACATTCATTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTAN

&gt;1078

NNNNNNNNNNNNNNNNNGCATTGATATGAATAGTTTCACTAATTCCATTCATGGTTA  
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TATGGACTATAAGTAACTTAATGCTTTTCTTCCCTATTTTATATCCCATATTTGGTGAATA  
ATTTAATTCACCTACTTCAATATTTTGTGTTGCAATTGATTTTACACCTACATTTACACTATTAAC  
TTATTTGTACATACTTAAATGGTTTCAGTGTGAAAAAGCAGCTTCTGACCTAGCATTACACT  
AGGCGGTGGCGTTCTCCTGCTGAACATTTAACAATTCTCAAATCTTAACATCAGATGAGGT  
CACTGTAATCCGGATAAAATGAGATACTGTAATCATGCCTGAGCACAGATAAAAAACAAAGTCA  
CTGTGCAAACCATAAACAGCCAACCTCTTCTGTGGCTAACATGGGTGACTGTTGCTTCTTTC  
CTTTCCTCCACCCACAACANNNNN

&gt;1079

&gt;1080

&gt;1081

ACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTTATGCTGGATG  
GACGCAGACCTGTAACACCTCTGTTTTTCTCTCCACCATATTTTTCATCAGCCGCTCA  
TTGTTTTTCTTTCTGGATTTTATATGGCAGCTGATCTTGCCTATGTATCACCTCGAGCCTT  
CTTTTCATACATCTTCTCAACCTACAGCTCATGATCTTGCAGGTCTTCACTGTACTGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTATGAGAGCATCCAGGATGTGAGGAG  
TGATGACGAGGATTATGAAGAGGAAGAGGAAGAGGAAGAAGAGGCTACCAAAGGCAAA  
GAGATGGATTGTTTAAAGAACGGCCTCGGGGCTGAGAGGCACCTCATTCCCATATGGCCAG  
CATGGCCATTAGCTGGAAGCCTACAGGACTCCCATGGCACAGCATGCTGCAAGTACTGTTG  
GCAGCCTGGCTTCCAGGCCCCACACCGACCCACATTCTGCCCTTCCCTCTTCTCACCAC  
CGCCTTCCCTCCACCTAAGATGTGTTTACCAAATGTTGTTAACTTGTGTTAAATGTTAAAT  
ATAAGCATGCCCATGGATTTTACTGCAGTTAGGACTCAGACTGGTCAAAGATTTCAAAGAN  
NNNNNNNNNNN

&gt;1082

CCACGCGTCCGGGGGCGCGGCCCGGGGATCCTCTCGCGCCCGCGGGCTCCAAT  
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CTGGGCGGCGGCGCCCCGACCCAGCCAGCGGACGGGCGGGGGGGGAACCGGGAGGT  
CCCGGGGGGCGTCCACGGGGGTGTCCCGGGGGTCTCCGGAAGGCGCGGCGGAGGCT  
CCCGCGCTGCGCTTGAATCGCGCGCGGCCCGCGGCCAGCCTGGGTAGGGGCAAGGC  
GCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAA  
AGCCAATGGGAAGGGCCGGGAGCGCGCGGGGAGATTAAAGGCTGCTGGAGTGAG  
GGGTGCCCCGTGACCCCTGTCCAGCCGCTCTCTGGTGGTCTGCTCGCTCTGCTGCG  
GCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCCATCACGGACCCGACGAGCTGC  
AGCTCTCGCCGCTGAAGGGGCTCAGCTTGGTGCACAAGGAGAACACGCCGCCGGCCCTGA  
GCGGGACCCGCGTCTTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAG  
CCGAAAATAAGCAGCTGCCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCC  
CGCCGCTTGTCTCTTCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGA

Table 4

GGCTTCCTTTTGGACCGCCGAGGAGGTGGACCTCTCCAAGGACATTGAGCACTGGGAATCC  
CTGAAACCCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTCAGCAAGCGATGG  
CATAGTAAATGAAACTTGGTGGAGCGATTAGCCAAGAAGTTCAGATTACAGAAGCCCGCT  
GTTTCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGA  
CACTTACATAAAAGATCCCAAAGAAAGGGGAATTTCTCTTCAATGCCATTGAAACGATGCCTTG  
TGCAAGAAGAAGGCAGACTGGGCCTTGCGCTGGATTGGGGACAAAGAGGCTACCTATGGT  
GAACGTGTTGTAGCCTTTGCTGCAGTGGAAAGGCATTTCTTTCCGGTTCTTTTGCCTCGATA  
TTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAACCTATTAGCAG  
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GGAGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTGCGATAGAACAGGAGTTCCTCACTG  
AGGCCTTGCTGTGAAGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTT  
GTGGCAGACAGACTTATGCTGGAACCTGGGTTTTAGCAAGGTTTTAGAGTAGAGAACCATT  
TGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACTTCTTTGAGAAGAGAGTAGGCG  
AGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCCTTTACCTTGGATGCTGAC  
TTCTAAATGAACTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAA  
TCAGCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAATGTTCAATACAGCATCT  
TTAAACTGTGTAGCTACCTCACACCAGTCTGTCTGTTTATAGTGCTGGTAGTATCACCTT  
TTGCCAGAAGGCCTGGCTGGCTGTGACTTACCATAGCAGTGACAATGGCAGTCTTGGCTTTA  
AAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGATTAAACAGTCTTTAACCAGCA  
CAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAAATGTTTACTTAAATATAA  
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TTTGGTTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTCACAATTCATAA  
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TTAAATATTTGTTAACTTTAAAGTCAGTCTGTGTATACCTAGATATTAGTCAGTTGGT  
GCCAGTAGAAGACAGGTTGTGTTTTATCCTGTGGCTTGTTGTAGTGTCTGGGATCTCTG  
CCCCCTGTAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAAGGAGCTTCTTAAGTT  
AAATCACTAGAAATTTAGGGGTGATCTGGGCCTTCATATGTGTGAGAAGCCGTTTCATTTAT  
TTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATTCTTGAAGAGTTTTCATATGT  
GGGAGCTAAGGTAGTATTGTAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATC  
TTGCCCTGTAAAGTGGTGAAATCACTAGAGGTGGTTCCTACAAGTTGTTCAATCTAGTTTT  
GTTTGGTGTAAGTAGGTTGTGTGAGTTAATTCATTTATTTTACTATGTCTGTTAAATCAGAAA  
TTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTCATACTTCAGTCACCCAGTGTCTTA  
TTCTGGCATTGTCTAAATCTGAGCATTGTCTAGGGGGATCTTAACTTTAGTAGGAAACCATG  
AGCTGTTAATACAGTTTCCATTCAAATATTAATTTTCAAGATGAAACATAATTTTTTTTTTTTT  
GAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGCGCGATTTTGGCTCACTGT  
AACCTCCATCTCCTGGGTTCAAGCAATCTCCTGTCTCAGCCTCCCTAGTAGCTGGGACTGC  
AGGTATGTGCTACCACACCTGGCTAATTTTTGTATTTTGTAGAGATGGAGTTTCACCATAT  
TGGTCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGTTCCACCCACCTCGGCCCCCAAAGTG  
CTGGGATTGCCGGGTGTTAACAATTTCTTATAGGGGACCTGAATTAACCTGCCTTTTTTGGG  
CGAGAAGCTCGGACTTGCN

&gt;1083

&gt;1084

NCCGAGGAATTTTTTTTTTTTTTTTGCATGACTAACAATTCATTCAATGTGTGTGTA  
CTGCTATGTGTCCTCATGCATGAGCTATGTCAAGGACAATCTACTGATAAGAGAAAATG  
AAAATGTACAAGTTGTAGGAGACTAAACATGGTTTAACTTAGTACACATTTTCTGAAATGTC  
CCCCGTGATTAAGTTGTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGA  
TTGTTAGTGACTTAGAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAA  
TCTCCTGTGTCCCACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAA  
CCAGAATTAGGAATAAGGATTGAGAAGAAAACCTCAGCAAGGGTGATGAATGAGTTTCAGCTC  
ATTGCTGGAGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAAGCTATTCCGG  
GGACCTTTTGAAGCCCTCGGACCTCACATCCCTAATAGCTAAAGAAGGATAAAATGGATGTA  
AGCCAGTGCTAATCGTTCCCGCN

&gt;1085

NNNACATTATCCACATTTAACACCTTTTTCAGTTGATGGCTGATTATCTGATTTTGCAA  
ATGGTGCCTCACTGTGGGGATCCCCTCCTCTATTCTCAGATGTGGTGATGGTCCCCTCGTTT  
TTCGACGTGCCTCCCGCTGTGGGCTGCAGTGTCAATCTCGGAAGCACATTTTCAGAA

### Table 4

GTCTTTCTATCTTTTGTCATAATCTTTGAGTAGAGTCTCTTCACTTCTTGTGTGACTCTCTGTGTA  
AGGCAGCTCTTCACACAGCTCCCTCAGGACTTCCATGTGGTGATTAAGCTGGTACAGGCAG  
CCTTCCTCAGAAAAGCAGGCCTCATGTTCTTTGATGAGACCCTTGGTCCTTCTCTACGGAT  
AAGTTTCTTTTCTTTATTTATTTGCTTTTCAAGTTTTAAATATTGTCACTAAGCTTTCCCTTTTTC  
AATATCTATTTTTAGTTGTTGAACATATAAAGACAGTTTCATGATGAAGAGACTCCCATTGCGCA  
CAGACACTCTCTACTCTTTTCTCTAAAGACATCTTTATGTCCTCAGTTACATTATTTTTAGTTC  
TTCAACAGCTTTCAAATACTTGGCCAGAGCTTTTGTATTAGAAATTATTAGTGCTTCTTGTGT  
TTTGAAATGAGTTCACCGGGGCTCTCTCTTTGCCCAAGTAACTGCTGAGCCCTCATCATATA  
TGATTCAAGTTCCTTCTGGGATTCTTCCATCTTCAGCCTGATGTCCAAATCTGGTGAAACGCT  
AGTTAAGTCTTCAACGCTGCAATGAGTTTTACCACATTGATCTGGACTTTCTCTTAGCTTCT  
TGAATCTTTGCCTGAAGCCCAGTTGTGAGAACATGTTGAAAGGACTCCTGGCTTGAAATATTT  
TGTATATCCATTTGTAACATATCTTCACTTCTTGCCATAAGCTTTTCATCAAACATAGAGCCCTT  
TGGCAATAAGATGCTTCAAAGATTCTTCCATTGAGGTGTCCACATCATCTTGATCCAAAACAG  
ATTTGGCTTCTGCCTCCCAGATTCTTCCATGTCCAATGAGTTTTCAACATCTTTAGCCACTTT  
TAGTTGCCGTGTGAATTTCTTCATTTTCTTTTTCATGTTTCTCTCCAGCCTTTATATTTGATTAT  
AATTTTCAGGAAGTTCTACTGACATATCTGTTGAAAACCTCAACAGTTGCTTTCTCTTCTTTAGA  
TAGAATATTTCCAGAATTGTCAAAGTGGGCTGATCCTGTTTTTTATCATCAGTGGCAGGTT  
CATTTCAAGTTGAGTTTTTGAACCAACTTTCTCCATCTTTTATTGAGCCTTCTCAGTTCTTTA  
GAAATAGATGATCCAACCACATCATTGCTGACTTCGACTAAGAAATTTCTGCTTCATTTAAA  
GTAGCGTGTTCTAGATTCCAAGTGGGCTAGTGTCTCAAAGGGTACCTCTTTAATTTCTTCTTCT  
TTTGTCTCCTCAAAGCAAGCCCTTAGTAAGCGAAGGTTTTCCACATAAGTAGCCCAACATGC  
CAGCATTCTTTGTAGAGTGGACTTCACATTATATATTTTTCTATACATACAAACATCAGAT  
TTCACCATCATATACTGTTTATTAATATTCTGACATTTCCAGCCAAATTTCTTAATAATTTCTCC  
ACATTTTTGAAAAGAAGTATCAAGTCGAGCTAGGAATCTTTTTCTTCAATAAATTTATGCCAG  
TCTTCCAGCAATAATCCACAGATTCTCTGCTCCCATATTTAATGTTCCAAATATCCAATTTTG  
ATTTCACTTCATCTACCAAACCAAGAACTAAGCACTTGTAGTAATGAAATCTAGAAGTAGAA  
AAAATTTTTCTCCAAAATGTTGTTGATTGCTTTTTCAATTCCTCCAATTTGTTAGGTGGTAC  
CAATGGCAAGTGATTTTCATCCTTATTTTCAAAGGTAAGGAGAATGTTGCAATGATGCTCAAA  
TCTATCCATCAGGCTCTTGAATAAGTCATTTTCTCTGTATCAGAGTCACGGCTGAGAGTG  
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AGGTCTGGTCGCAAGGCATGAATGATGGCCAAAAAAGCCATCCCATTTCTCCAACCTTGACTT  
AAAATCGGTCACATTGACAGACTCATAGGTGGCGCATTGTTCTGAGCCCAAAAAGAAGG  
GCCTTTCTTGACAGACATTTGCCATCTTGCTTGCACTTTAGAGCATTCTTAGCTGGAGGACTT  
GAGGCAGGAGATGAGTCAACCACACTCACATCATCCAGGGAAGGCTGATTGTAATTGCAAG  
AAAGAGTCTGGGCAAGCTTCTCAATATGAAAGTGCAGGATAATTGTCCAAATTAGGCCAAGG  
ATAATTGATGGGTTTCCATCAATGATATCAGTAACATGAATATTTATTAGCTTAATTGATCGGT  
TCTTAGGAATGTCAAGGCATGTTCTATATTGATTCTACACTGGAAGGTATTAGATCCTTTATC  
CCGAGGCAACTGTTGCCAGAAAGTACTTCTAGCAGATCCAGGAGGACATGCCCTTTTTTAA  
TGTCTGTGAATAGGTGGATATAAAGTGGGAGAGTGTGCCTGGCCAACTGTGAGTTTATC  
CAGCACGTGAAGGCTTTCTTCTGGGTGTCTTCTGTTGAGCTTGAATGAAATATGGAGATC  
GTGATGCCCCAGGAACCTGTTTCATCTTGGGTGGGAAGCTCAGGACTAGATGCCATTCTTT  
GACTCAATGGAGATTATATCATGTCCATCTCAGTTGAAGAAGTGAACGTCCGCCCGGCCGAG  
GGGCAAGGCGCGGGCGGGGCGGCCGAGGTGCGCGCCCCGCTTGCTGGCTCTCTGG  
ATCGCGGCTTTTGTCTGCTCTCCCTCTCGCTTTTTCAGGTCCGGCCGAAGGCTCTGGGCGC  
AGCTGAGCTCGTGCC

**>1086**

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
 ACTGGAGTGCCTGGTGAATCTCGGCTCACTGCAACCTTCACACCCCAGGCTCAAGTGTC

Table 4

ATCCTCCCGCTGAGTAGCTGGAACACACGTGCGCACCACTAAACCCAGCTGTTTAATACA  
CCATTTTTAACCCTAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACA  
GACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTAACTTCTT  
GATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTACAAATTACATATACAATGC  
CAAAAATATTCAAAAATAACATTTTTTGCACCTTAATGATTACAAATGCTAACCAGCATAAAGA  
CACTGGAAAGTTTCAGAATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACN

&gt;1087

&gt;1088

NNCACGAGGATTCCCTTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
GATCTGCTAAGGCTAAGAGGCAAAGATAGGCAAGTCACTCCCTGACCTCAAGAACTCCC  
AGTCTACAGGCGAAGATACACCACCCACCGGTAGAGTCGCTGGACCAGAATATTAGGTGTT  
CCAGTCAAAGTCACCCAGATTTGCCAAAAGACCTGGCACAAATGCACTTCCACTATGAAGT  
CCCCTGACTTCCATATACAAGACAATCTGCTGGGAATTTCTTGGGTTGACAGCTCTTGGAT  
CCCTATTTTGAACAGTGGTAGTGCTCTGGATTACTTTTCAGAAAGAAGTAATCCTTTTTATGA  
CAGAACATGTAATAATGAAGTGGTCAAATGCAGAGGCTAACATTAGAACACTTGAATCAGAT  
GGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTTCTTTTCATCATTGGAAGCA  
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TCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAGTGGTAAGTGTCTTCACATTCT  
TTAAGCACTAAAGAAAACCTTTTAATTAGCTACCTTGTCTTCCAGTAATCAAACCTAGAGCTCCTCT  
GCCTTGTGTAAGTTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGAG  
CCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATTTAGGTTCTGAAAAAT  
AGGTTCTGTCTTTGCATATGTAATATTTTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAA  
TGATAAATTTAGAGTTTATTTTCTTTTACAAGCTTACTGCATTGCATGGTATTGAGTCAGCTT  
TTGATGAAGCTATGTCATACTGGTCGATATCAT

&gt;1089

NNGAGTCGACCCACGCGTCCGCTTGTCTATTTCAAGTTTGAGTAGGCTGAGGAAGA  
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&gt;1093

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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Table 4

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&gt;1153

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Table 4

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NNNN

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Table 4

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>1168

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Table 4

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### Table 4

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Table 4

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NNNNNNNNNN

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Table 4

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Table 4

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&gt;1186

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NN  
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Table 4

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&gt;1192

&gt;1193

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Table 4

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&gt;1206

&gt;1207

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&gt;1209

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&gt;1210

&gt;1211

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**Table 4**

GAGTCCATCTGTTTAATCCTGTCATTGGAGACTTGAGAAACCAGAGCCAGAAAGGGAAAAAGT  
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Table 4

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Table 4

&gt;1229

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&gt;1230

&gt;1231

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&gt;1233

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&gt;1236

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&gt;1237

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Table 4

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Table 4

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Table 4

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Table 4

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### Table 4

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Table 4

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CAAGTAGATTGATTGCCTTCATATACAAGTATGTTTTAGTATTCCTTATTTCTTATTATCAGAT  
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TATTTTTTAAATTTAGCTTGTGCTTTTGAATTTACAGGAGAAGGGAATCATAATTTAATAAAACG  
CTTACTAGAAAGACCATTACAGATCCCAAACACTTGGGTTTGGTGACCCTGTCTTCTTATAT

Table 4

GACCCTACAATAAACATTTGAAGGCAGCATAGGATGGCAGACAGTAGGAACATTGTTTCACT  
TGGCGGCATGTTTTTGAACCTGCTTTATAGTAAGTGGGTGATTGCCATTGTGGTAGAGCTT  
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&gt;1270

&gt;1271

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&gt;1272

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### Table 4

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**>1274**

**>1275**

**>1276**

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**>1277**

**>1278**

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CTCACACAGTTGTGTAGTGAAAAAGGGGACTATTGTAACAGGCTGTGCACATAATTGTGG  
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**>1279**

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Table 4

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CAATACTCAATTGTAAATAACCATTTCTTTTACTGAATCAGATGTTTCATTAACCTGTTAGCAGT  
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&gt;1280

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CACTTTAAATACTTCTGGTGTCTTTATGACTTAAACGCAAATAGCTTAGGCTTAGCTTTTTCTC  
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&gt;1285

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AAACTAACCCCTGTGGTGGTGTGGCTACATTTCTTTGAGTTTAGAAAACGAGATAAAGAATTG  
CTCATATCTTCCCAAATTTGTGTAGTATAAAAAAGATGCTGTCTGTTGTTTTTGTAGAATAT  
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Table 4

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&gt;1288

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&gt;1291

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Table 4

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>1295

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Table 4

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ATTAACCCAATTGAAGCCAAGCAGAGAAAGGGAAAAGGTGCTGTGGGGGCTTATGGATCCG  
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Table 4

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&gt;1304

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&gt;1307

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Table 4

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&gt;1309

&gt;1310

&gt;1311

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&gt;1312

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Table 4

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Table 4

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&gt;1318

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&gt;1322

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&gt;1323

&gt;1324

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&gt;1326

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Table 4

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GCCAAATCTAGCTCACTATCTGTTTTGTAAATAAAATTTTATAATAGTACACAGCCACACTCA  
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&gt;1327

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Table 4

AGTCGGGTGGGATGAGAGACGGAGAAAAGAAATAAGACACAGAGACAAAGTATAGAGAAAC  
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CCACCGCCAGCTCCAGACAGTTGCTTCCACCCCAAGCTTCACAGGAATAGACCAGCAGCTG  
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&gt;1329

NNGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTTCGTGCCGTGCGGGGAC

Table 4

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Table 4

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CCCTTAGACTANNNNNNNNNNNNNNNNNNN

&gt;1330

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GTCAAAGAGAAAAGGAAAAGAAAAAATATGACCGGTTGAATTTAGAGTATCAAAGCATGG  
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TGATCCTGTTTTTCTCAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAA  
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NNNNNNNGGAAGTAAAACCAGTATTTATTGAGTACCTATTTGCCAGATACGGCTAG

Table 4

GTGCTCCACATCCCATCTCTTAATCCTCACAACAACCCTGTGAGGTAGGTAATAATGATCC  
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GAGAAGNNN

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CGTGTGGCGGGCAGTGGGACCCATAGATCTTCTGAAATGAAACAAATAATCACATTGACTTA

Table 4

CTGTTTGAGTTTTATGTATTTCTTTATTTAATCAGGATCTTCTGATAGTGGAAATTTTTAGTAC  
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GCTGGAGTGCGGGGGTGCTATTTCAAGGTCTCACCAAACCTGGGCTCCGGGGGTCAAGGGG  
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GATTCGCCCCAGGCCTCTAGTGTGAATTCAGGGACAGGGACAGGTATTACCACGGGGGAT  
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&gt;1340

NNNNNCATGAGATTGCTCTATATTTTNTTTTGGTACCATCCTTGTCAGGTTTNTGAA  
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CTCAAAATAGTTCAATTTAAACAATTTCTGTTTTACTATTTCCCTTGTCTATTTAAATTTTG  
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&gt;1341

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TTCCTACGGAAACAACAACCTTTCTTGTATATTTTAAACAAAACCTAGTATAGATTCCCTTTAT  
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&gt;1342

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ccccggca

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Table 4

TTTCCACATCTGCACAATGGGGGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGT  
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CCTGGCCGCGCCCCGTGCCTGCGCTGGCGGTCCAGCTCGTTGGCGGCGGCGGCGGGCTC  
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AGTAGGGCTTGCCCCACTTTCAGAGGTTTTGGGGTTCAGGGTGCTGTGTCTCCCCTTGCTG  
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NNNNN

&gt;1345

&gt;1346

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AGN

&gt;1347

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Table 4

ATTATTTAATCTTAAAAGGTTTGGTAGAAATCCCCTTAAACAATCTGGGCTTGATGCTTCTTTT  
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CTCAAATAGTCAATTTAAACAAATTTCTGTTTTACTATTTCCCCCTTGTCATTTAAATTTTG  
TATTTGTGCTTCTCCTTTTTTTCTTAAATAGGTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
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ACAAGTATTATGTATCCATAAAAAATTAATAATCTTTAAAAATGCATATGGGGGTCAG  
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&gt;1352

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CAGCTTCAGCTCGGACTCGGGCTCCAGCCCGGCGTCCGAGCGCGGGCGTTCCGGGGCCAGG  
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Table 4

GCTAATCTGACCAAATGTTGGGAAAAATGTCTCACCTAACCCACTATTCTTAATTATGGATT  
TTGTGAAAAACAATAGAACATGTTAATGAGTAATTTATATTAGTTCGATGTATTACAATTTTTTA  
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GAAAATTTAAACTTTTCTCTCTATTTAAAAGCTAAGAAATGTTTTAAAGGAAAAATGAAATTAT  
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GTATAACTGN

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Table 4

ATCTTGCTCAATAAGTTTTAAGTAACATTTAAAAATATTAAGCATGTTATTTGACCTAATTTT  
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&gt;1360

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&gt;1361

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GCCCATGATGCCCGCAGGTAAAAATAAACTAAACCCCACTTGAGGTGCTATTTAGCCAAA  
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Table 4

GCTGGCATGGGCCCTAATGTGGTTCCcTTCATTTAGtTTTTaaacAGGATACaaGATACCACAAA  
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Table 4

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GNN

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Table 4

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GTCCN

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ATTTAAGGCCTATAAAAAGTGCCACCTTTCCAGAATTAATTCAGAGAGAAAAATCTTATCTG  
CCTCCTGGCAGCTACAGCGCAGAAAGN

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Table 4

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Table 4

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AGACGCATATGAGTAAGGGCACTGACGGACTCATGATTTCTTCTTACCAGATGCTTTCCTGT  
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TACCACGCTAGGGCTGGCTCAATTGAAAGTGCGGCAAAAGCTTACAAATACTAAAAAGAAGTG

Table 4

CTGCCGCGCAGTGTGGAGGCCACTGTTTGGAAATAAATCTTCCTAACACTACGACTTTTCAT  
GTTTTGGAGTGGACTTTTAAAAAGTTTTCCAACCACAATGGAAACAGGTTGAACCACACTGC  
GCCTACACATCCATCCATACGTCAGCCATTATAATCAGATTCTCACTGGGGGAGGCATTTTC  
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NN  
NNNNNN

&gt;1379

&gt;1380

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&gt;1381

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Table 4

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GAGTGCAGAGATACTGAGGTGAGCTTAGGGAGAAGAATTGTATGGAAGGGTGGAAATGAGG  
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NCCGCTTTGATATGAATTATTATGCAAAGAATGACAGACATAGAGACTGCAAAGGCC  
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TCCATTACTCTTTGTGATATTCTCAAAGAAAGTTTAGGATTTTACAGTGTCTGAAATACTG  
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Table 4

TTGGGTTTTGGTTTTGGGAAACATGAAATAATTGGTTCTTAAAGCAATCCTTAAGGTCTATTA  
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>1384  
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GCCCCGCCCCGGGAGCCAGATTTTGTGGAAGTATAATACTTTGTCAATTATGAGATGTCGTCTC  
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Table 4

GATGTCCCCTTAAATTTTGTGCCCAAGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCC  
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NNNNNGGTTGTGGGTGGAGGGTGTTTTAAATAACAGCTTTACAGAGAGATATCATTG  
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CTTATCATGTTGTCCAGAGGTCCAGTCTGGCTGCTGTTGTGGAGGCAAGGAAGGCAACTCA  
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Table 4

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>1404

Table 4

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GTTTGAATTATTTAATTTGATCCATTTATTTAATTAATAAAAAAAAAAGGAAGGGGAAAGAG  
ATCATGGCCAAAAAATAGTAGTTAACCCCCACCCCAACCCCAAGCTCTAGCCAGTCATGT  
GAGCATCACCCACATCCCACTCAGTGCTGATATTCGGATGGTGGCATACTCTGCCCCAGG  
AGACTGCCTGAAGGCACGGGGCAATGGGTGCCAATTTTAGCTCTCAGCAGGTTAGTCAACC  
AGACAAACTGGTGGGCTAAAGTCCAGAAATCTTTCCAGGTTTTCTGCTCATTGGCTGAGCA  
CATACAACTGTCATAAGCCTGTAAAAATTAAGGGGAGTTGGGGTGGGGCGTAAGAGCAAAA  
GGACAGCAGGAGAAGAGAAATTACGGGTACCCCAAGTTTTCTGGGCTAGTGGCTCTGGA  
TATAGATTTAAAGAGAGGTCAGAGTAAATGGACTCCAGGTTTCTTATCAAAGAAAACTATCCC  
TCAATGAGGAGCTGAGATGTGCCATGCAAGAGAGTTCTTCTGCGAGAGGCACAGGAGAAAG  
GGCAGCTGACTCTCTCATGTGGAGAGAGTGGCGAGGAAGGTCTTCTAGTACCATGAAGTAA  
GACAGGCAGAGGGAGAATCCTGAGGTTTGGGCCAAATGTGAGACTGGTACACACACAGTTA  
AAGACTAAAAAGCCATCAGGAACCCCTCAAAGCCAAATCTATCTGCACACTGGCTCTACAAA  
GTTTCGAGCAAGAATCTCTTGACCAAGTCAAGTTAGTGGCCTGGCTATGATGGATGGTGG  
GGAGGGCAATACATTTTTATTTTCAGAGGGATGAGGTGGGAAGAACAGCCATGATCTAGTAA  
AAAGAGACCTGCAAGAAGCAGAAAATATTTAGAGAACATTTTAAATATATTTTTATATATA  
TTTAAAGTTAAGAAAAATAAACTAATTCAAGCCATGCCCTGTGCAAAAAAAAAAAAAATAAA  
GAAAAAAGAAAAAAGGAAAAAGAAAAACAAAAATTTAAAGTGAGACGTTTGCTGCTGTGGT  
TCAATTTAAGAATCACAGTCAGCTTGTTACTTTTTATTTTGAAGAAAAGATGTAAAAGTTTCTT  
TCAATCATTGAGAAGGCAAGTGAGCCACTTATAAAAAACAGAAATGGCAGGAACAACTAGGA  
AAGGAAAGTCAGAAGTAAAGGGCAGAGTGGGAAAAATAATTTTCAAAAAATAAATAACAAGG  
TGACTGTTCCAGAAGAGGGCTGTGAAAAGGACATGGTGGACCGAAGTCTGTTAGTCAAGTA  
ATGATTCAACTTTTAAATTATTCTCTTGTCTTTTTGTTGGGTGTTTTGTTTGAAGTCTAA  
GATTTGGAATGCTGACCCTTTGTTAAGAGCCAACAGGACATATAGGATCCCTTCCCTCCCC  
CGGCCTGCCTCCGCTGAAGCCACCACCAGCGCTCCTTGGCTGGATGCTGGAAGAGTCCT  
CCATGTGTACGAGTACAGGATGACAGGGCAGCCTCCTTCTGTGGTTGCTGGGCTTGTGAAC  
GTTGCGATATCTTTGGCTTTCCACGTCTCTAAAAATGTTTTCAACTATTTTGCGTACATGGCT  
CAGTGCACCTCCCTCTTTGCCCTTACAGTTTTCCACTTGATATGGGGGTGTAATAACAACCTC  
TTCCATGACTACGATGTTTTTTCTTGCCATTTACAGTCTTTAATGGTCTTGTGAATGGTCTGG  
AAGAGCTGCTGGCCCTCTAGAGAGACACCAGCACTGATTGCATAGGCCTGGCTCAGCTGGC  
AAGCTTACTAACATTGAGTGAAGCTAGGGGAGGAGGGGTTTCTGTTCCGGTCCGGACGCGTG  
GGTCGACN

&gt;1408

ACGCGTCCGCGCTAACCAAGTCCCCAGTTCAGTAGACTGGAGCCAGAGCCTGCTT  
ACTTGTGAGGTGTTTATTTGTCTTGCTTTTTTTTTTTTTTAAATGAAGTCAAATGCCAATAA  
GACCAGATCTCCAGCAGTTGGAAAAATGCATTGATGATGCTTTAAGAAAAATGATTTCAAAC  
CTTTGAAAACTTTTGCAAATTGATATTTGTGAAGATGTGAAGATTAAATGCAGCAAACAGT  
TTTTCCACAAGGTGGACAACCTTATATGCAGGGAACTTAATAAAGAGGATATCCACAATGTTT  
CAGCCATTTTGGTTTCTGTTGGAAGATGTGGCAAAAAATATCAGTGTATTGGGGCAAGCTGGA  
CTTCTAACGATGATAAAACAAGGACTAATACAAAAGATGGTTGCCTGGTTTGAAAAATCCAAG  
GACATTATTCAGAGTCAAGGAAATTCAAAAGATGAAGCTGTTCTAAATATGATAGAAGACTTA  
GTTGATCTTCTGCTGGTCATACATGATGTCAGTGATGAAGGTAAAAACAAGTAGTGGAAG  
TTTCGTACCTCGCATTTGTTCCCTGGTTATTGACTCAAGAGTGAATATTTGTATTTCAGCAAGA  
GATTATAAAAAAATGAATGCTATGCTTGACAAAATGCCTCAAGATGCCCGGAAAAATACTCTC  
TAACCAAGAAATGTTAATTCTCATGAGTAGTATGGGAGAAAGGATTTTAGATGCTGGAGATTA  
TGACTTACAGGTAGGCATTGTAGAAGCTTTGTGTAGAATGACCACAGAAAAACAAGACAAG  
AACTGGCACATCAGTGGTTTTCAATGGATTTTATTGCTAAGGCATTTAAAGAAATTAAGGACT  
CTGAATTTGAAACAGATTGCAGGATATTTCTCAACCTTGTAATGGCATGCTTGGAGACAAAA

Table 4

GAAGGGTCTTTACATTTCTTGTTTATCAGCATTTCTTGATAAATATGAGCTGCAAATACCATC  
AGATGAAAACTTGAGGAATTTTGGATTGATTTTAACTTTGGGAGTCAGACTCTCTCATTCTA  
CATTGCTGGAGATAATGATGATCATCAATGGGAAGCAGTTACTGTGCCAGAGGAAAAAGTAC  
AAATATACAGCATTGAAGTGTGAGAATCAAAGAAGCTACTGACAATAATTCTGAAAAATACAG  
TAAAAATTAGCAAAAGAGAAGGGAAAGAATTGCTTTTGATTTTGACGCATCACTAGAAATCA  
CTAATGTAACCAAAAAATTTTGGTGCAACTAAACATAGGGAATCTATCAGAAAAACAAGGTA  
TTTCAGTTGCCAAAACGCTCGCTGCATATACTTTTGACGCAAGTGGATCAGCATCTAGTGC  
CAGAAAGTCAAATCTCACCAGTCGGAGATAAGAGCTCGTTAGTTTAAAGGAAAAATCAAAGTCC  
CCAAAGGAATTTGCTAAACCTTCAAATATATCAAAAACAGTGACAAAGGGAATAGAAATAAT  
AGTCAGCTTGAGAAAACTACTCCTAGCAAAAAGAAAAATGTCTGAAGCATCAATGATTGTTTCT  
GGTGCAGATAGATACACTATGAGAAGTCCAGTGCTTTTCAGCAACACATCAATACCACCACG  
AAGAAGAAGAATTAACCACCCTGCAAATGACGAGCTCTGCAGAGAAACCTAGTGTTTCTC  
AAACATCAGAAAATAGAGTGGATAATGCTGCATCACTGAAATCTAGATCATCAGAAGGAAGA  
CATAGAAGAGATAATATAGACAAACATATCAAACTGCTAAGTGTGTAGAAAACACAGAAAAT  
AAGAATGTTGAATCCCAAACCAAAATTTAGTGAACCTCAGGATGTTATACCAGATTACAG  
GCAGCGGAAAAAGAGATCATACTATATTACCTGGTGTTTGTAGACAACATCTGTGGAAATAAA  
ATACACAGCAAATGGGCATGTTGGACACCTGTAACAAACATTGAACTATGTAATAACCAAAGA  
GCAAGTACTTCGTCAGGAGACACATTGAATCAAGATATTGTTATAAATAAAAACTTACTAAA  
CAAAAAATCATCCTCTTCAATATCTGATCATAATTTCTGAAGGAACAGGAAAAGTGAAATATAAG  
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TCAGCAACAAAATCATCCTAAATATTGAGGGCAGAAAAATACTGAAAATGCCAAGCAGAGTG  
ATTGGCCTGTTGAATCTGAACTACTTTTAAATCGGTTCTCCTAAATAAGACAATTGAAGAAT  
CGCTGATATAGGAAGAAATACATATTGTCAAAGATGTGAATACTGCTACTTGCAGATAAAA  
ATCCATCTGCTAGCAAAAATGTGCAAAGTCATAGAAAAAGCAGAGAAAAGATTGACTTCTGAG  
CTTAATTCTGGGATTGCAAAACAAAAAATAGAGAAAAAGTCAAAGGGAAAGAATTTACC  
AATGTAGCAGAATCCTTGATAAGCCAAATCAATAAAAGATACAAAACAAAAGATGACATCAAG  
TCTACAAGAAAATTAAGGAGTCTTTGATTACAGTGGTTTTTCAAACAAACCTGTTGTACAA  
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ACTTCTGAATGCCAGTGAATGATGTTTACAATTTTAAATTTGAATGGAGCTGATGACCCATC  
ATAAACTTGGAATCCAAGAGTTTCAAGCTACAGCTAAAGAAGCTTGTGCGGATAGGTCAAT  
TAGATTGGTAGGTCCAAGGAATCATGATGAACCTTAAATCTTCTGTCAAAACAAAAGATAAAAA  
AATTATACAAAATCATCAAAAGAAAAATCTGTTTAGTGATACTGAAACAGAGTACAGATGTGA  
TGACAGCAAGACTGATATTAGCTGGCTAAGGAAACCGAAATCAAACACAGCTAATAGACT  
ATAGCAGAAATAAAAATGTGAAGAATCATAAAAGTGGAAAATCAAGATCATCCTTGAAAAAGG  
GACAGCCAAGCTCTAAATGACACCCAGTAAAAATATCAGAAAAAGATGGACAAGACAATT  
CCGGAAGGAAGAATCAGACTTCCACGAAAAGCAACCAAAACAAAAAAGCTATAAAGATCT  
CTCAAAATCAGAATCAGAGTGTGAACAAGAATTTTACATTCAATTAAGAGAACATACCAGT  
AAAGGAGGAGAATATCCATTCCAGAATGAAAACGGTAAAGCTACCAAAGAAACAACAGAAAG  
TCTTCTGTGCTGAAACAGAAAAGGAACTATCAAAACAATGAAAAACTCATCTCTACTAAAAG  
ATGCTATACGAGATAATTGCCTTGACTTATCTCCAGATCTTTATCTGGCAGTCCATCATCTA  
TAGAAGTAACGAGATGTATAGAGAAAATAACAGAAAAGGATTTTACTCAGGATTATGACTGCA  
TAACAAAATCTATATCACCTTATCCAAAACTTCATCACTTGAATCCTTAAATAGTAACAGTGG  
AGTTGGAGGTACAATAAAGTCACCCAAAAACAATGAGAAAACTTCTGTGTGCAAGTGAAA  
GTTGTTACCAATTCCACGACCACTGTTTTTGGCCAGACATACTCCAATAAGAGTAATACTA  
TTGTAATAGAAAAAATAAGTTCTCTGGTACTTACACAAGAAACACAAAACAGTAACAGCT  
ATTCAGATGTAAGCAGTTATAGTTTCAAGAAGCGGTTTATGGAAATTGAATCTCCACATATCA  
ATGAAAATTATATACAAAGCAAAAGAGAGGAAAGTCATTTAGCATCTTCATTATCCAAGTCTA  
GTGAAGGAAGAGAGAAAACGTGGTTTGACATGCCCTGTGATGCTACTCATGTATCAGGCC  
CACCAACATCTTAGTCGCAAAAGAATATATAGAGAAGATAATCTAAGTAATTCGAATGAAGT  
AGAAATGGAAGAGAAAGGAGAAAAGGAGAGCAAACTTGCTTCCAAAAAAGTGTGTAATTTG  
AAGATGCAGATCATCATATCCACAAAATGTCTGAAAGTGTATCTTCATTATCAACAAATGACTT  
TTCTATTCTTGGGAGACCTGGCAAAATGAATTTGCAGGGATAGAGATGACTTATGAGACTT  
ACGAGAGGCTCAATTCAGAATTTAAGAGAAGGAATAATATCCGACATAAAATGTTGAGTTATT  
TACTACGCAGTCTTGGAAAACAGCTCAGCAACATCTGAGAACAAATGAATCATCAAAGTCAG  
GACTCTAGGATTAATAAACTTGATAAATCCAATTCATTATCATAGAGGAGCTGGAGAATTTT  
GAAAAAGATTCACAGTCTTTAAAGATTGGAAAAAGGAATTTGTGGACTTTTGGGAAAAGATA

NNNNNNNNNNNAAAGGAAAAAGGAAGAAAGAAAATTGCAGAAGGAGGTTTCGCAG  
TGAATTTCA GTGGCACCATACCACAGGCAGTTTCTAGGGAGTTCACCAGTCCCCAGAG  
CATGGCTTCCAGCAAATCTCTTGGCATCACCTCCAGGTAGCTTCCAGAGAGTTCCACTA  
GCACACTAGAGGCCATCTTCTTATAACGCCAGAAAAGTGTTCAGGCACCCACAGGGTAA

Table 4

CTGTCTAGTGATTTCCACCAGCACCCCCAGAAAGCAGGCCCTGCTTGCCAGCCACCACAT  
GGACAACCCACAGGCTTCCCCACTATCCAGTGGGCGTGACCAAATCCTGTTAATGAGG  
TCTGGATCTCGGCCCTGGGGAGCCACCCATTCTGGAATTTGCTCCCTCCTGGGTCCCCTG  
CCTTAGCCCAGCAGTTACAGATGCTCTTGCAATTTGCTGCTTATGTTCTCTTAGAGTCTCA  
GTCCCTCTAGCAGCTAATCCCATGTTACCAGTTGACGACTCTTCTAGGAACTTCACCTGTT  
GGTGTAATTAGTACAAGCTCTATGGAACACAGTATGGAGATTTCTCAAAGAACTAAACATAA  
ACCCCATTCATCCAGCAAGCCCACTACTTGGCA

&gt;1419

ACACATAAGTTCATTCTTGCGCTTTTTAAATTTTATGGAAAGACTAAATACATTTGTGTC  
TATTAATCAAAATATGAATTTAGAAGGAAATAATTTTGTGTAATAAATTTGTATGTGGTAAATTT  
TACCTAATTTAAATTTGTTGTTCCATAATTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGG  
GGGTGGGGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGCACT  
GGTCTCATGAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGAAAAGAAATTTGTTTATA  
CGATATTCTAAAAATTAATGTTGCTGTCAGGGATGACATGATACAGGACCAGAGTCTGTGTA  
AACAACAAAGTTTTCTTAAAGTATTGATACACGCTTTTTAAAAATTGCAAGAGGTTTTAAGTTTA  
ATTCAAAAATCTGTTTAAACAGCCATTTGTACCTGCCNNNN

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&gt;1423

NNNNNNNNNNNNNNNNNNCACTCTGTATTAAAAGTANAACCTACTAAAAGAAAAGAGG  
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ATCCTGAACCTAGAGCTCTCAATCCTAAGATTTTCATGAAAAGCCTCTCACTTGAACCCGAA  
CCAGAGTACGCGGGCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCT  
CCTTTTCATTGCAGAAAATTGCCAGGGGCTTATTTTCAGAACAACTTCCACTTACTTTCCACTG  
GCTCTCAAACCTCTCTAATTATAAGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGC  
ACAAGTGACTAGTCCTATGATGT

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&gt;1426

&gt;1427

&gt;1428

NNACCATATAGGTTGGACGACGGAGACACGTCATTCATGCGAACTTTCCCTTCACCCA  
AATGCAGAGCAAAATGTTGCTCCCCAGAAGCCCACAAGGTAGCTGAAGCCATTTCTAGTTGACA  
TCGGCAATCTCCATTCTCTTCACTCCACACTTTGACAACTCACTCTGTGGAGCCATTTGGCTCA  
GTCAAATTTTTATTTTTTTTTTTTACATATATAGGCATAGTGCTGATGCTTAAAGATCCTGTTG  
ACTGAAATAAGTTGCAAGGAATATTAGTTTCAGGGAAATATCAAAGTGTAATAATATATGGGA  
TAGTGAGAAAGAAAAAGCCATCCAACACCAGCACATTAGAAATTACTCAATCACTTCTGTCAT  
GTGAAAAAGGGATCAGCACCCACCCAGAGCAAACTCAAACCTCTGAGTCTATTACCAGTTAA  
GTCAAGACTTGGCTTCTATTTTTGCAAAGTAATCAGTAAGTGAAGTCAAGTGTGAAATTCCTGGT  
TGCTCCTTGATCTTGTGTAACATTTATCCAATCATTTAGGCTGTTTGGGTTGAAGGAGGGTTAT  
TACAATAAGAACATCTTTGAGAGACTTTTTCAAGAAAATTGTTTCAATTTGTTGGGGGAAAAAAC  
CCCTCATTTGCCACAGGAACTAAGGTTTGGTCTGTGAGCCAAAGGTATTGTTTCAATTTCAA  
ACTGGGAAAGTGTAGCTGGTGGGGGCGAGTTAGAAGTGGAGAGGGGAAAAGGTAGAGATCA  
AGTTAGAAGAGACACTTTTAAACAGTATTTTTATTTAAAAAAATTTCTCTCCACAGGACTTAC  
TACATCCAACATCAAATCAACTTAAAAAACCACCATCTCTCATGGCTCCATTTGAAGAAAGAC  
ACATCCTTCACAGTGCTATATTACCTTGTCTGTGATATTATGGATCCTGGTTAGGAAAAGGATT  
CATACCACAACCAATCACGTCCGCCTATGCTGAGAAAGTGTCCATTTCTTTAGGCTGAAAATAA  
GACTGTACTTTCTATAAACAATAGGAAAATGTGATCTATTGCTTCTTTCTTGGTCCCGTGCCCC  
TCGCCTTGCTAAGTCAGTTTTTCGACTGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG  
TGCGTATGTGTGTCCAGAGGCCACTGATCCAGTCCAAGTGTATTTAGAAATTAGTTCAGTGGC  
TCACAAAGGTCTTAGAGGCCACTACTGCGCTGGGGAAATCCATTGAGCTTGGCTTGTCTCTC  
TTGCTCTTGCCAAATGTGCACTCTGCTTACATGCACACACTCCTTAGGAAGATGCCAGTTATCTC  
TATTTTATGN

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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(54) Title: GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers is correlated with the presence of cervical cancer.

## INTERNATIONAL SEARCH REPORT

International Application No

P/US 00/33312

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C07K14/47 C07K16/30 G01N33/68 C12Q1/68  
 A61K31/7088 A61K31/7088 //A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K G01N C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EM_HTG [Online] EMBL; Accession number : AC009554, 30 August 1999 (1999-08-30) BIRREN, B. ET AL.: "Homo sapiens chromosome 15 clone RP11-16B9 map 15" XP002175250 nucleotides 60633 to 61509 ---	1,2
X	DATABASE EM_HUM [Online] EMBL; Accession number : AL132777 (ID: CNS01DT1), 2 November 1999 (1999-11-02) HEILIG, R. ET AL.: "Human chromosome 14 DNA sequence BAC R-307P22 of library RPC1-11" XP002175251 nucleotides 58075 to 58291 --- -/-	1,2

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

27. 11. 01

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/33312

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 09170 A (MATRITECH INC) 5 March 1998 (1998-03-05) the whole document ---	1-57
A	WO 98 05967 A (HOLMES CHRISTOPHER HAROLD ;PASCOE EDWARD WILLIAM (GB); MASON ROBER) 12 February 1998 (1998-02-12) ---	
A	NIELSEN H ET AL: "IDENTIFICATION OF PROKARYOTIC AND EUKARYOTIC SIGNAL PEPTIDES AND PREDICTION OF THEIR CLEAVAGE SITES" PROTEIN ENGINEERING, vol. 10, no. 1, 1997, pages 1-6, XP002072638 ISSN: 0269-2139 cited in the application ---	
T	WO 01 42792 A (MILLENNIUM PREDICTIVE MEDICINE) 14 June 2001 (2001-06-14) -----	

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 00/33312

## B x I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 47, 56 and 57 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
  
1-57 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1 : Claims 1-57 (all partially)

Sequence 1 from Table 1 (and the related sequences in Tables 2 to 4), homologs or fragments thereof, vectors or cells containing it, polypeptides encoded thereby and antibodies binding thereto; Use of the nucleic acids or polypeptides in diagnostic, monitoring or therapeutic methods related to cervical cancer.

Inventions 2 to 1428 : Claims 1-57 (all partially)

As for subject 1, but concerning sequences 2 to 1428 from Table 1 (and the related sequences in Tables 2 to 4), respectively.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/33312

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			AU 4073297 A	19-03-1998
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			AU 3779497 A	25-02-1998
			EP 0935757 A1	18-08-1999
			WO 9805967 A1	12-02-1998
			JP 2001505650 T	24-04-2001
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			WO 0142792 A2	14-06-2001
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